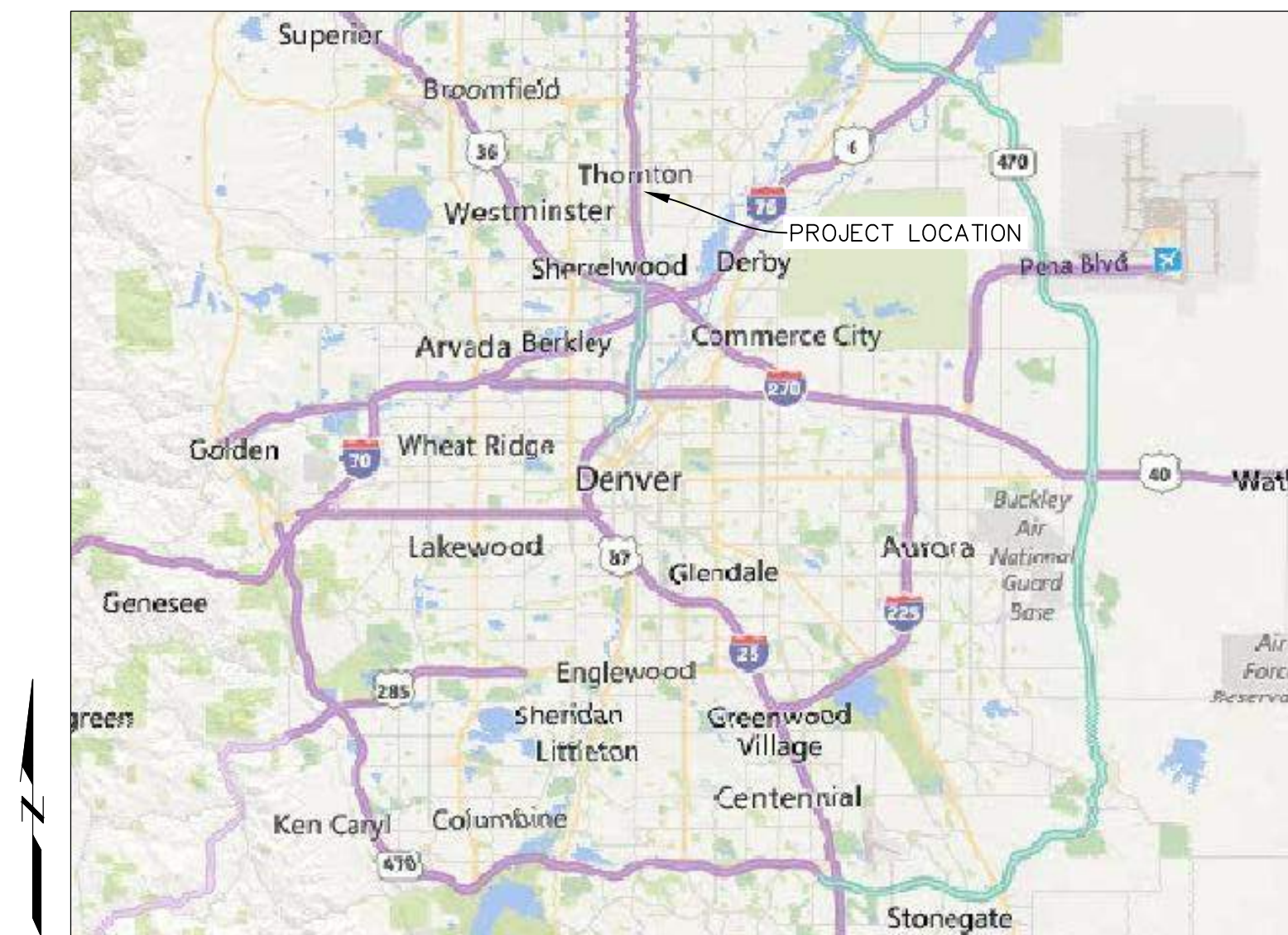


CITY OF THORNTON BID DOCUMENTS THORNTON JUSTICE CENTER EXPANSIVE SUBGRADE MITIGATION PROJECT

PHASE III CONTRACT DRAWINGS THORNTON CIP 22-076 THORNTON, COLORADO

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VICINITY MAP

0 5 10
SCALE IN MILES



LOCATION MAP

0 500 1000
SCALE IN FEET

GENERAL PROJECT INFORMATION

CITY OF THORNTON, COLORADO
 OWNER

CONTRACTOR

RJH CONSULTANTS, INC., ENGLEWOOD, COLORADO
 ENGINEER

CITY OF THORNTON APPROVALS

DocuSigned by:
Pete Brezall 1/18/2024
 PROJECT MANAGER - PETE BREZALL DATE

DocuSigned by:
Daniel Schiltz 1/18/2024
 INFRASTRUCTURE ENGINEERING MANAGER - DANIEL SCHILTZ, P.E. DATE

PREPARED FOR:
 City of Thornton

PREPARED BY:

RJH CONSULTANTS, INC.
 ENGLEWOOD • COLORADO
 www.rjh-consultants.com



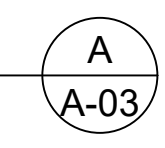
I HEREBY CERTIFY THAT THESE PLANS FOR THE THORNTON JUSTICE CENTER EXPANSIVE SUBGRADE - PHASE II MITIGATION PROJECT WERE PREPARED BY ME (OR UNDER MY SUPERVISION) FOR THE OWNERS THEREOF.

ROBERT J. HUZYAK, P.E. COLORADO P.E. NO.25734
 REGISTERED ENGINEER
 RJH CONSULTANTS, INC.

DWG. NO.
A-01

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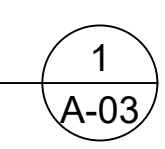
DETAIL



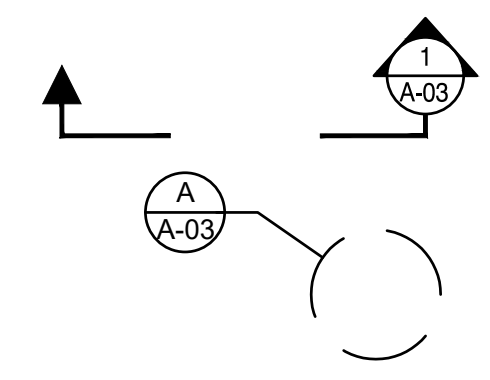
LEGEND

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SECTION

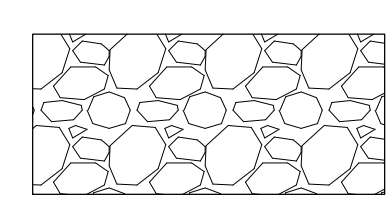
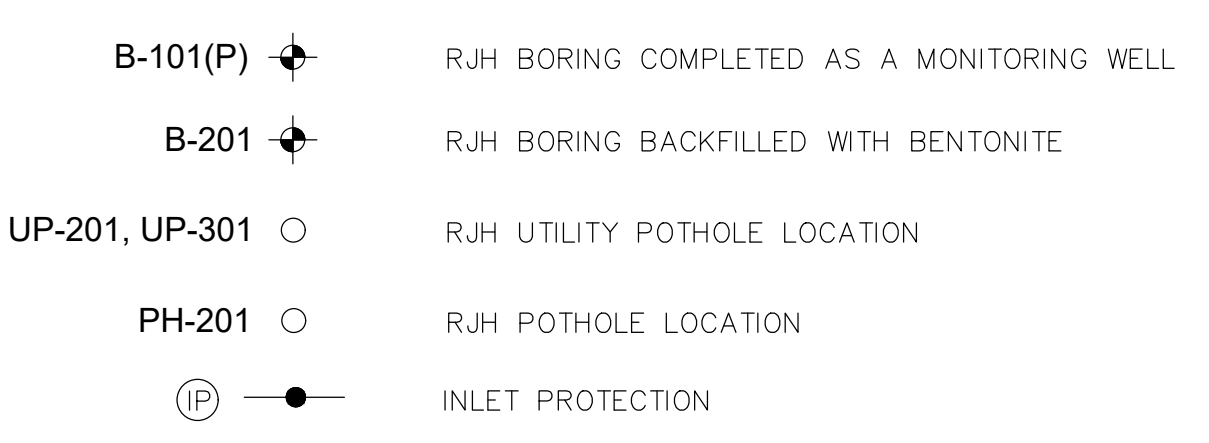
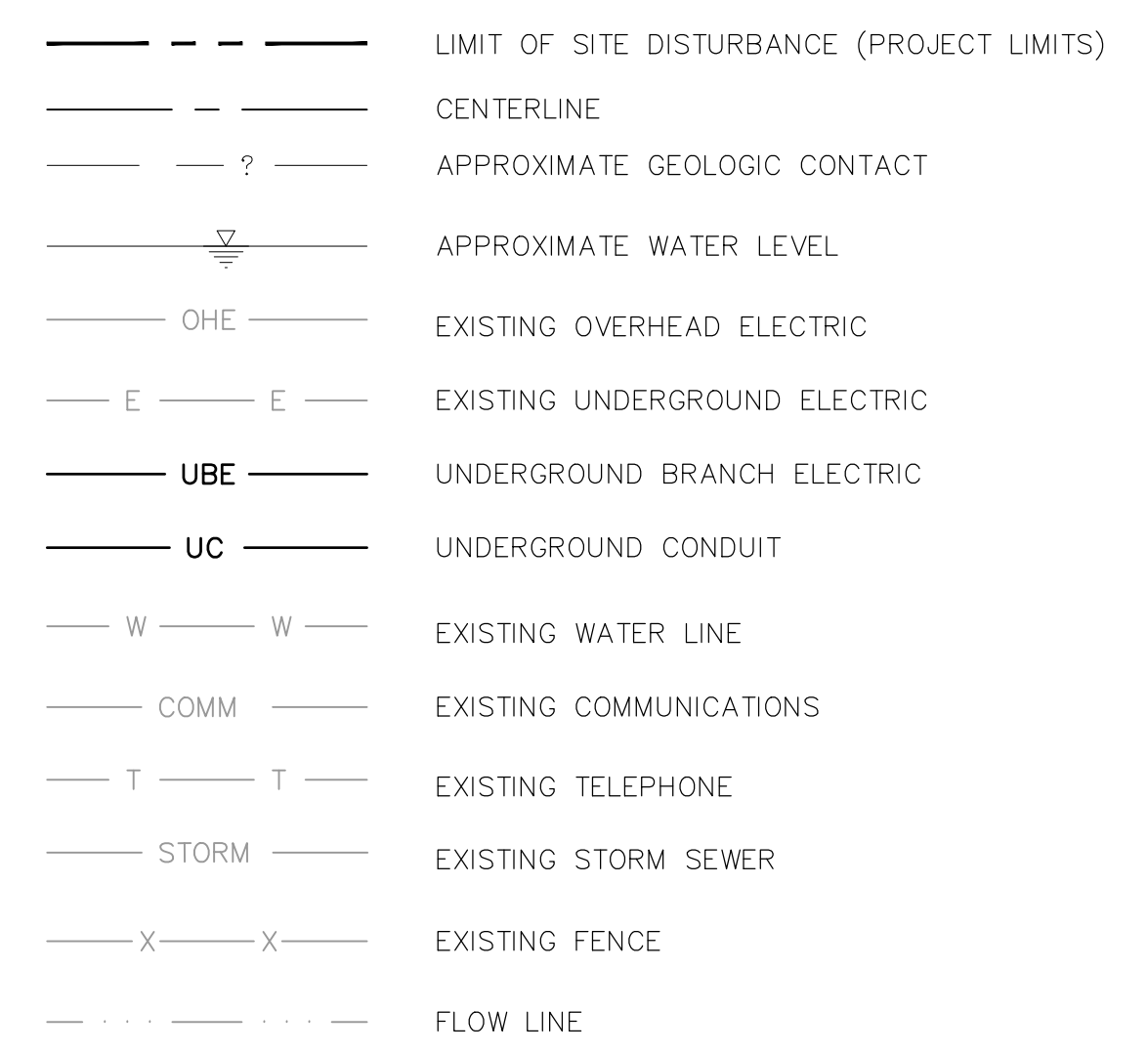
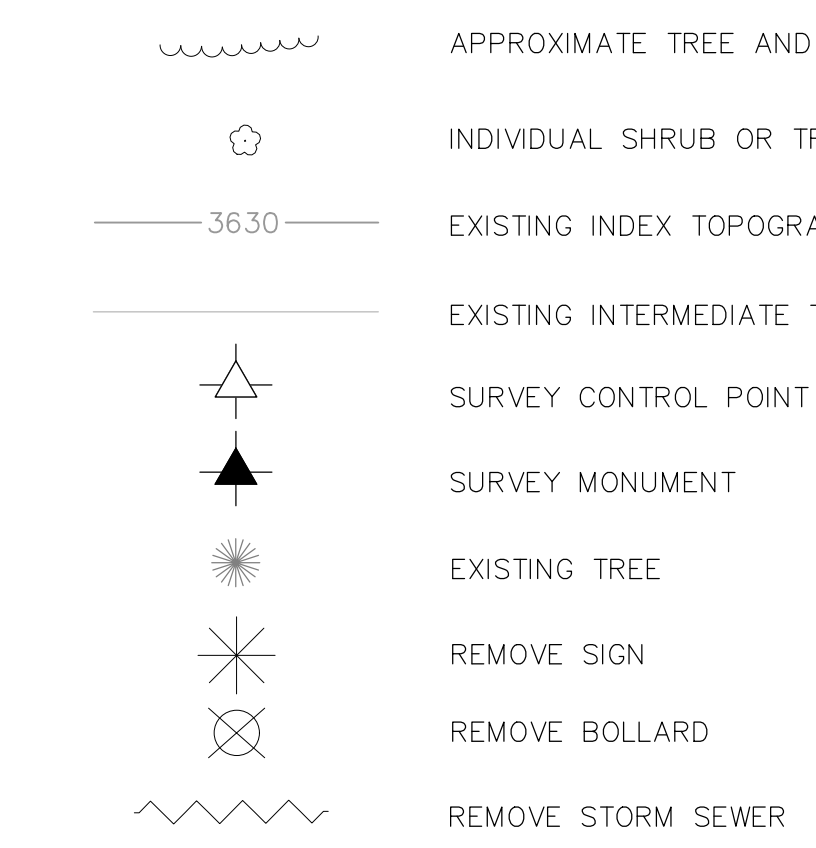


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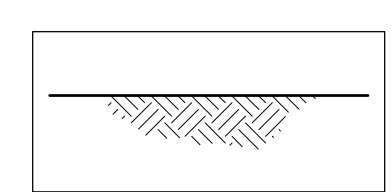


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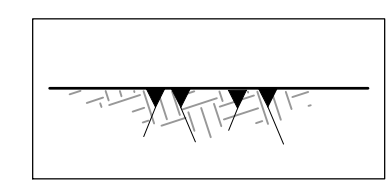
DETAIL LOCATION. THE LETTER "A" REFERS TO THE DETAIL DESIGNATION. THE NUMBER "A-03" REFERS TO THE DRAWING NUMBER WHERE THE DETAIL IS SHOWN.



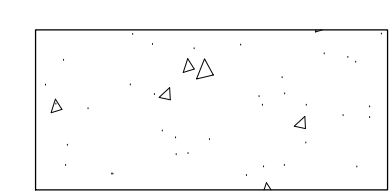
RIPRAP, RIVER ROCK, OR AGGREGATE BASE COURSE



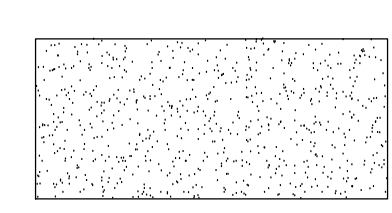
EARTH



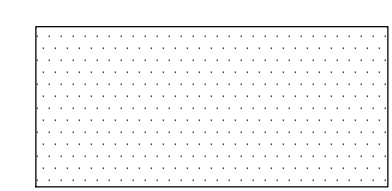
ROCK



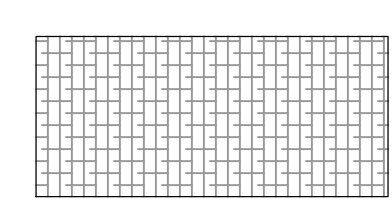
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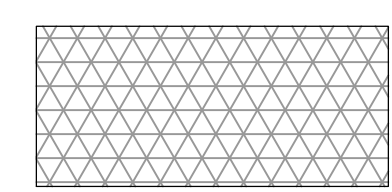
FILTER SAND



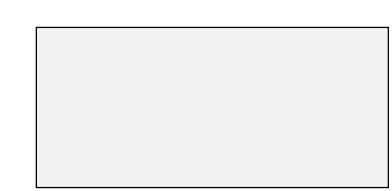
CONCRETE PAVING



ASPHALT PAVING



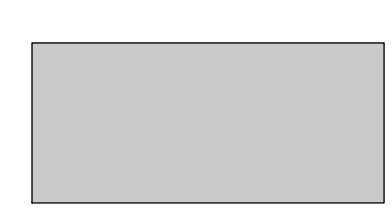
GEOMEMBRANE LINER



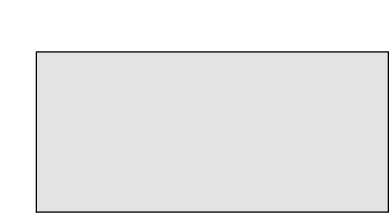
TYPE 1 BROOM FINISHED CONCRETE (NO COLOR)



TYPE 2 DECORATIVE SANDSCAPE CONCRETE WITH SANDSTONE COLOR



TYPE 3 EXPOSED AGGREGATE CONCRETE WITH LIGHT GRAY COLOR



TYPE 5 CONCRETE SEATWALL WITH SANDSCAPE FINISH WITH GRAPHITE COLOR



TYPE 6 BROOM FINISHED CONCRETE WITH DESERT TAN COLOR

ABBREVIATIONS

APPROX	= APPROXIMATE
CJ	= CONSTRUCTION JOINT
CL, CL	= CENTERLINE
CLR	= CLEAR
CMP	= CORRUGATED METAL PIPE
CMU	= CONCRETE MASONRY UNIT
CONC	= CONCRETE
CONT	= CONTINUOUS
CP	= CONTROL POINT
DEG	= DEGREE OR DEGREES
DIA	= DIAMETER
DWG, DWGS	= DRAWING OR DRAWINGS
E	= EAST OR EASTING
EA	= EACH
EPS	= EXPANDED POLYSTYRENE
EL, ELEV	= ELEVATION
EW	= EACH WAY
EXST	= EXISTING
FL	= FLOWLINE
FT	= FEET OR FOOT
H	= HORIZONTAL
HDPE	= HIGH DENSITY POLYETHYLENE
INV	= INVERT
LF	= LINEAR FOOT
MAX	= MAXIMUM
MSEW	= MECHANICALLY STABILIZED EARTH RETAINING WALL
MIN	= MINIMUM
NAD	= NORTH AMERICAN DATUM
NAVD	= NORTH AMERICAN VERTICAL DATUM
N	= NORTH OR NORTHING
NGS	= NATIONAL GEODETIC SURVEY
NGVD	= NATIONAL GEODETIC VERTICAL DATUM
OC	= ON CENTER
PVC	= POLYVINYL CHLORIDE
QL	= QUALITY LEVEL (AS IT PERTAINS TO ASCE 38-02)
R	= RADIUS
REINF	= REINFORCEMENT
SS	= STAINLESS STEEL
STA	= STATION
STL	= STEEL
SUE	= SUBSURFACE UTILITY ENGINEERING
T&B	= TOP & BOTTOM
TYP	= TYPICAL
V	= VERTICAL

GENERAL NOTES

1. THE HORIZONTAL COORDINATES SYSTEM FOR THE PROJECT IS MODIFIED COLORADO STATE PLANE NAD83. CONVERSION FACTOR IS 0.999721940. THE VERTICAL DATUM IS NAVD88. SURVEY WAS COMPLETED BY GEOSURV, INC IN 2014.
2. UTILITIES ARE DEPICTED IN GENERAL ACCORDANCE WITH THEIR ACHIEVED QUALITY LEVELS AS DEFINED IN THE AMERICAN SOCIETY OF CIVIL ENGINEER'S DOCUMENT ASCE 38 "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" AND SHOWN ON DRAWING A-03. CONTRACTOR SHALL FIELD LOCATE ALL UTILITIES, WHETHER SHOWN ON THE DRAWINGS OR NOT, PRIOR TO EXCAVATION. CONTRACTOR SHALL PROTECT ALL UTILITIES IN PLACE UNLESS DESIGNATED FOR REMOVAL OR REPLACEMENT.

P: \\21129 - JUSTICE CENTER PHASE III\CAD\DESIGN DRAWINGS\21129_ABBREVIATIONS.DWG 1/15/2024

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RJH PROJECT 21129

THORNTON JUSTICE CENTER
PHASE III

LEGEND ABBREVIATIONS
AND GENERAL NOTES

DWG. NO.
A-02
SHEET NO.
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STRUCTURAL NOTES

1) REINFORCEMENT SYMBOLS

BARS SHOWN THUS # 8 @ 1'-0" OR # 8 @ 1'-0"

INDICATE A GROUP OF IDENTICAL # 8 BARS SPACED AT 1'-0" (12") CENTERS.

○ AN OPEN CIRCLE AT THE END OF A BAR INDICATES A BEND WITH THE BAR TURNED AWAY FROM THE OBSERVER.
● A CLOSED CIRCLE AT THE END OF A BAR INDICATES A BEND WITH THE BAR TURNED TOWARDS THE OBSERVER.

○ INDICATES A DOWEL

SPLICES SHOWN THUS INDICATES A LAPPED SPLICE, NOT A BEND IN THE BAR.

2) DIMENSIONS

DIMENSIONS ARE TO THE CENTERLINES OF THE BARS UNLESS OTHERWISE SHOWN. CLEAR COVER DIMENSIONS ARE MARKED "CLR." ALL DIMENSIONS TO A JOINT ARE TO THE CENTERLINE OF THE JOINT. BEAMS, COLUMNS, AND WALLS ARE CENTERED ON REFERENCED LINES. THICKNESS SHOWN FOR WALLS AND SLABS ADJACENT TO UNDISTURBED SOIL OR ROCK ARE MINIMUM DIMENSIONS.

3) COVER

UNLESS OTHERWISE INDICATED ON THE DRAWING, PLACE THE REINFORCEMENT SO THAT THE CLEAR DISTANCE BETWEEN THE FACE OF CONCRETE AND NEAREST REINFORCEMENT IS 3 INCHES FOR # 5 BARS OR LARGER. FOR CONCRETE PLACED DIRECTLY AGAINST EARTH OR ROCK, MINIMUM CLEAR CONCRETE COVER OVER REINFORCEMENT SHALL BE 3 INCHES.

4) REINFORCEMENT DOWELS

DOWELS INDICATED ON THE DRAWING SUCH AS #8(D), SHALL HAVE A MINIMUM STRAIGHT EMBEDMENT AND PROJECTION EQUAL TO THAT REQUIRED FOR LAP SPLICING A BAR OF THE SAME DIAMETER.

5) PLAIN DOWELS

PLAIN DOWELS, INDICATED ON THE DRAWINGS SUCH AS 3/4" (PD), ACROSS CONTRACTION JOINTS SHALL BE PLAIN REINFORCING BARS OF THE BAR DIAMETER INDICATED. PLAIN DOWELS SHALL BE A MINIMUM OF 36 INCHES LONG, WITH EQUAL LENGTH EXTENDING ON EITHER SIDE OF THE CONTRACTION JOINT. IMMEDIATELY BEFORE THE SECOND CONCRETE PLACEMENT, THE PROJECTING HALF LENGTH OF DOWEL SHALL BE GREASED TO PREVENT BOND TO THE CONCRETE.

6) STANDARD HOOKS AND BENDS

HOOKS AND BENDS SHALL CONFORM TO ACI 318, SECTION 25.3.

7) PLACING REINFORCEMENT

PLACE REINFORCEMENT IN ACCORDANCE WITH APPROVED REINFORCEMENT SHOP DRAWINGS. IN THE EVENT OF A CONFLICT BETWEEN THESE DRAWINGS AND THE APPROVED SHOP DRAWINGS, THE APPROVED SHOP DRAWINGS SHALL GOVERN.

SEE ACI 318, SECTION 25.2 AND ACI 301, SECTION 5.3 FOR PLACING TOLERANCES.

REINFORCEMENT MAY BE ADJUSTED IN THE FIELD TO CLEAR FORM TIES AND ANCHOR BARS. IN SUCH CASES, RELOCATION OF THE EMBEDDED MATERIALS MUST BE CONSIDERED. IN NO CASE SHALL BARS BE BENT IN THE FIELD.

REINFORCEMENT SHALL BE PLACED TO MAINTAIN A CLEAR DISTANCE OF AT LEAST 1 INCH BETWEEN OTHER REINFORCEMENT, ANCHOR BOLTS, FORM TIES, OR OTHER EMBEDDED METALWORK.

REINFORCEMENT PARALLEL TO ANCHOR BOLTS OR OTHER EMBEDDED METALWORK SHALL BE PLACED TO MAINTAIN A CLEAR DISTANCE OF AT LEAST 1-1/3 TIMES THE MAXIMUM SIZE AGGREGATE TO BE USED.

8) SPACING

THE FIRST AND LAST BARS IN SLABS AND WALLS, STIRRUPS IN BEAMS, AND TIES IN COLUMNS ARE TO START AND END AT A MAXIMUM OF ONE HALF OF THE ADJACENT BAR SPACING. ALL REINFORCING TO BE EQUALLY SPACED UNLESS OTHERWISE SHOWN ON THE DRAWINGS.

9) ACCESSORIES

BAR SUPPORTS, SPACERS, AND OTHER ACCESSORIES ARE NOT SHOWN ON THE DRAWINGS. THE RECOMMENDATIONS OF ACI 315 (DETAILING MANUAL) SHALL BE USED IN SELECTING ACCESSORIES.

10) DETAILING

UNLESS OTHERWISE SHOWN, FOLLOW THE RECOMMENDATIONS OF ACI 315. NO CHANGES SHALL BE MADE WITHOUT PRIOR APPROVAL.

11) CONCRETE PLACEMENT

BEFORE PLACING CONCRETE, CHECK ALL APPLICABLE DRAWINGS RELEASED AS SUITABLE FOR CONSTRUCTION INCLUDING MANUFACTURER'S DRAWINGS TO VERIFY THE PRESENCE OF ALL EMBEDDED MATERIAL REQUIRED IN THE PLACEMENT.

12) EMBEDMENT AND LAP SPLICE LENGTH REQUIREMENTS

EMBEDMENT LENGTHS AND LAP SPLICE LENGTHS ARE SHOWN IN THE TABLES BELOW.

BASIC EMBEDMENT LENGTHS ARE BASED ON ACI 318, SECTION 25.4 AND THE REQUIRED f_c .

ALL LAP SPLICE LENGTHS SHOWN ARE CLASS B SPLICES BASED ON ACI 318, SECTION 25.5.

UNLESS OTHERWISE SHOWN ON THE DRAWINGS, THE MINIMUM LENGTHS FOR EMBEDMENT AND LAP SPLICES FOR PARALLEL BARS SHALL BE AS GIVEN IN THE TABLE BELOW.

WHEN REINFORCING BARS OF DIFFERENT SIZE ARE TO BE SPLICED, THE LENGTH OF THE LAP SHALL BE GOVERNED BY THE SMALLER DIAMETER BAR.

SPLICES ARE TO BE MADE SO THAT THE GIVEN CLEAR DISTANCES TO THE FACE OF CONCRETE WILL BE MAINTAINED.

13) EMBEDDED ITEMS AND OPENINGS

BEFORE PLACING CONCRETE, CARE SHALL BE TAKEN THAT ALL EMBEDDED ITEMS ARE IN POSITION AND SECURELY FASTENED IN PLACE. ADD ADDITIONAL REINFORCING AROUND OPENINGS AS SHOWN ON DRAWINGS.

14) FINISHING SYMBOLS AND CONCRETE TOLERANCES

FINISH SURFACES FOR ALL CONSTRUCTION AND CONTRACTION JOINTS SHALL BE PROVIDED IN ACCORDANCE WITH THE SPECIFICATIONS.

15) CHAMFER

UNLESS OTHERWISE INDICATED, CHAMFER EDGES OF ALL PERMANENTLY EXPOSED CONCRETE SURFACES WITH A 45 DEGREE BEVEL, 3/4 INCH X 3/4 INCH. CHAMFER STRIP MAY NOT BE SHOWN ON THE DESIGN DRAWINGS.

16) JOINTS

ALL CONSTRUCTION JOINTS, CONTRACTION JOINTS AND EXPANSION JOINTS SHALL BE PROVIDED WHERE SHOWN ON THE APPROVED SHOP DRAWINGS. NO OTHER JOINTS SHALL BE INTRODUCED UNLESS APPROVED BY THE ENGINEER.

17) STRUCTURAL STEEL

17a) GENERAL

FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO CURRENT AISC STEEL CONSTRUCTION MANUAL. ALL REINFORCEMENT SHALL BE GRADE 60.

17b) BOLTED CONNECTIONS

ANCHOR AND NON-STRUCTURAL BOLTS AND NUTS SHALL BE ASTM A 307, STRUCTURAL BOLTS AND NUTS SHALL BE ASTM A 325. ALL BOLTED STRUCTURAL CONNECTIONS SHALL CONFORM TO THE AISC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A 325 OR A 490 BOLTS. ALL BOLTS, NUTS AND WASHERS SHALL BE HOT-DIP GALVANIZED. ALL STRUCTURAL BOLTED CONNECTIONS SHALL BE BEARING-TYPE CONNECTIONS. ALL BOLTS EXPOSED TO WATER OR SUBMERGED SHALL BE SS TYPE 316.

17c) WELDING

CONFORM TO AWS D1.1. WELDING ELECTRODES FOR PLAIN STRUCTURAL STEEL SHALL BE AWS SERIES E-70. WELDING ELECTRODES FOR GALVANIZED STEEL SHALL BE AWS SERIES E6010 OR E6011.

17) BUILDING CODE

STRUCTURAL DESIGN IS SUBJECT TO INTERNATIONAL BUILDING CODE (IBC) 2021 AND CITY OF THORNTON STANDARDS AND SPECIFICATIONS.

TABLE OF BASIC EMBEDMENT AND LAP SPLICE LENGTHS ACCORDING TO ACI 318
 $f_c = 4000$ PSI

BAR SIZE NO.	EMBEDMENT (INCHES)		LAP SPLICE (INCHES)	
	ALL BARS EXCEPT TOP BARS	TOP BARS*	ALL BARS EXCEPT TOP BARS	TOP BARS*
3	1'-3"	1'-7"	1'-7"	2'-1"
4	1'-7"	2'-1"	2'-1"	2'-9"
5	2'-0"	2'-7"	2'-7"	3'-4"
6	2'-5"	3'-1"	3'-1"	4'-0"
7	3'-6"	4'-6"	4'-6"	5'-10"
8	4'-0"	5'-2"	5'-2"	6'-9"
9	4'-6"	5'-10"	5'-10"	7'-7"
10	5'-1"	6'-7"	6'-7"	8'-7"

* TOP BARS ARE HORIZONTAL BARS IN BEAMS AND SLABS PLACED SO THAT MORE THAN 12 INCHES OF CONCRETE IS CAST IN THE MEMBER BELOW THE BAR.

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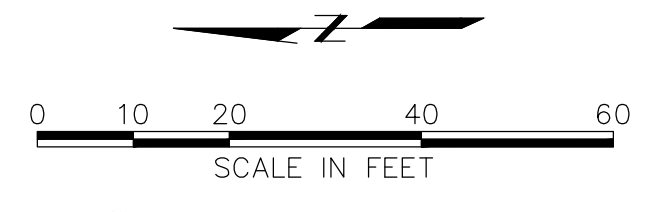
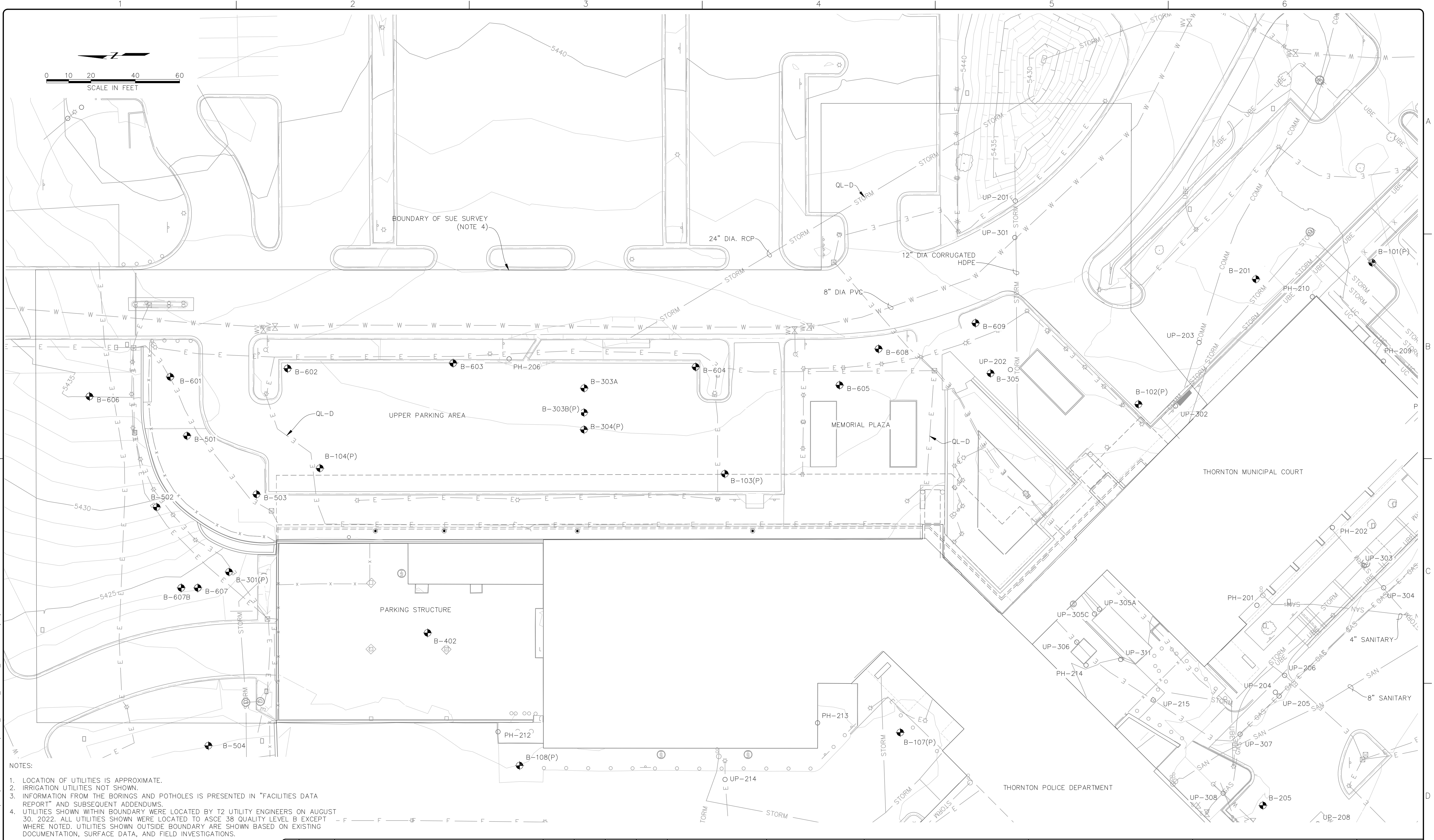
THORNTON JUSTICE CENTER
PHASE III

STRUCTURAL NOTES

DWG. NO.
A-03

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RJH PROJECT 21129



- NOTES:
1. LOCATION OF UTILITIES IS APPROXIMATE.
 2. IRRIGATION UTILITIES NOT SHOWN.
 3. INFORMATION FROM THE BORINGS AND POTHOLES IS PRESENTED IN "FACILITIES DATA REPORT" AND SUBSEQUENT ADDENDUMS.
 4. UTILITIES SHOWN WITHIN BOUNDARY WERE LOCATED BY T2 UTILITY ENGINEERS ON AUGUST 30, 2022. ALL UTILITIES SHOWN WERE LOCATED TO ASCE 38 QUALITY LEVEL B EXCEPT WHERE NOTED. UTILITIES SHOWN OUTSIDE BOUNDARY ARE SHOWN BASED ON EXISTING DOCUMENTATION, SURFACE DATA, AND FIELD INVESTIGATIONS.

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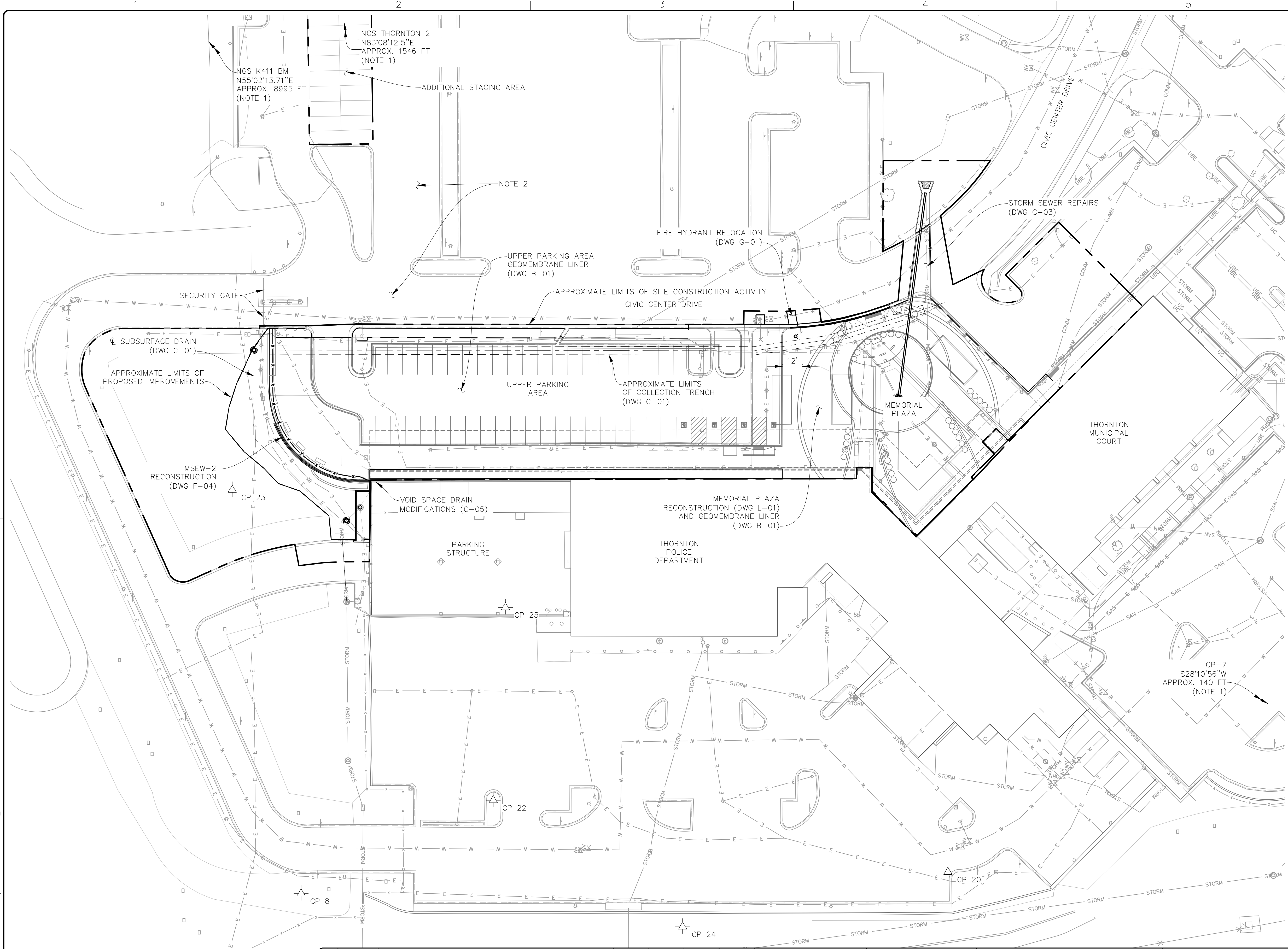
RJH PROJECT 21129

THORNTON JUSTICE CENTER PHASE III

EXISTING UTILITIES, BORINGS, AND POTHOLE LOCATIONS

DWG. NO. **A-04**
SHEET NO. 4 of 46

P:\21129 - JUSTICE CENTER PHASE III\CAD DESIGN DRAWINGS\21129_EXISTING UTILITIES_SHEET.DWG 1/15/2024



PRIMARY SURVEY CONTROL POINTS				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1196612.01	3146977.35	5444.00	NGS THORNTON 2 (NOTE 1)
2	1201662.32	3152801.30	5286.40	NGS K411 BM (NOTE 1)
7	1195750.98	3144967.96	5422.81	CP 7 (NOTE 1)
8	1196452.92	3144920.59	5412.66	CP 8

SECONDARY SURVEY CONTROL POINTS (NOTE 2)			
POINT	NORTHING	EASTING	DESCRIPTION
20	1196066.01	3144933.50	CP 20
22	1196337.98	3144976.42	CP 22
23	1196494.11	3145162.13	CP 23
24	1196224.69	3144900.75	CP 24
25	1196330.69	3145091.82	CP 25

- NOTES:
1. POINT IS OFF THE LIMITS OF THIS DRAWING. DISTANCE AND BEARING TO POINT PROVIDED FOR REFERENCE.
 2. SECONDARY CONTROL POINTS PROVIDED FOR HORIZONTAL REFERENCE ONLY.



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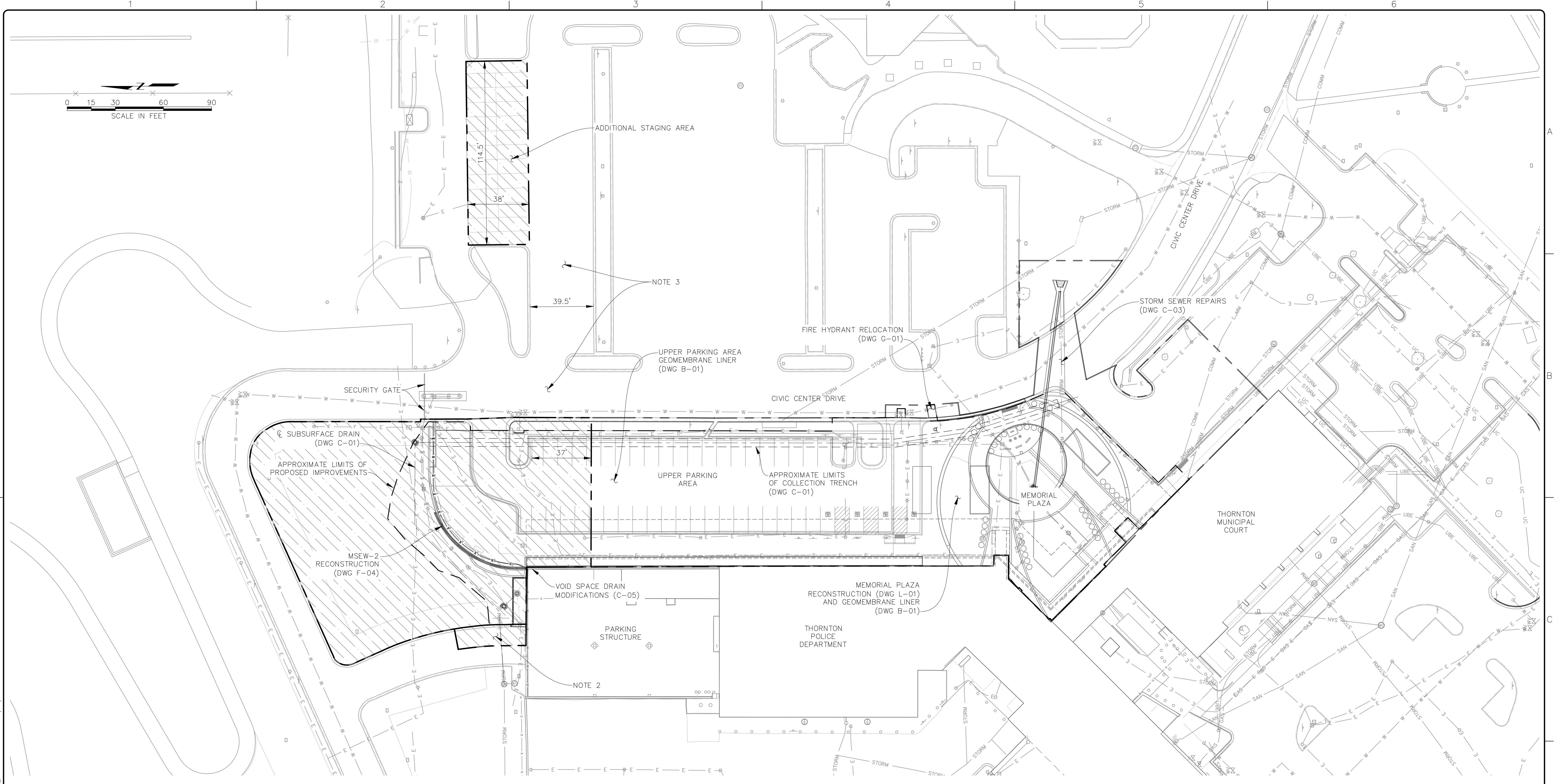


THORNTON JUSTICE CENTER
PHASE III

GENERAL PLAN OF
MODIFICATIONS AND
SURVEY CONTROL

DWG. NO.
A-05
SHEET NO.
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RJH PROJECT 21129



- NOTES:
1. STAGING AREAS SHALL BE ENCLOSED USING TEMPORARY CHAIN LINK FENCE EXCEPT AT THE ENTRANCE TO THE TOP LEVEL OF THE PARKING STRUCTURE.
 2. CLOSURE OF ONE LANE TO MID-LEVEL PARKING ENTRANCE WILL BE ACCEPTABLE DURING WORK HOURS FOR A MAXIMUM OF 5 DAYS. CLOSURE SHOULD BE MARKED USING TRAFFIC CONES. CONSTRUCTION VEHICLES WILL BE ALLOWED TO TRAVEL ACROSS CIVIC CENTER DR AND THROUGH PARKING ACCESS LANES TO ACCESS THE SITE BUT NO PARKING WILL BE ALLOWED. CONSTRUCTION VEHICLES MUST YIELD TO PEDESTRIANS AND PUBLIC TRAFFIC.



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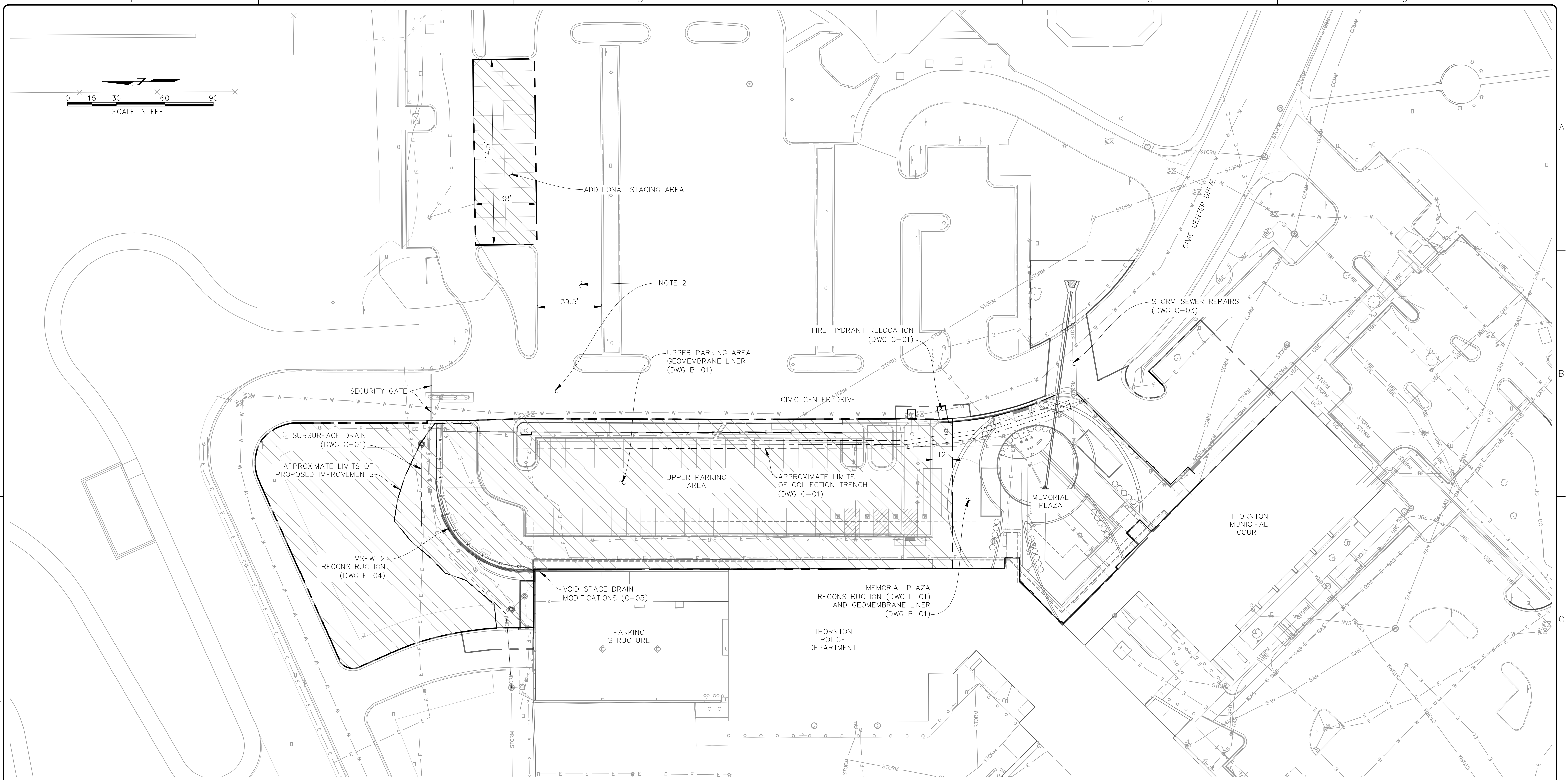
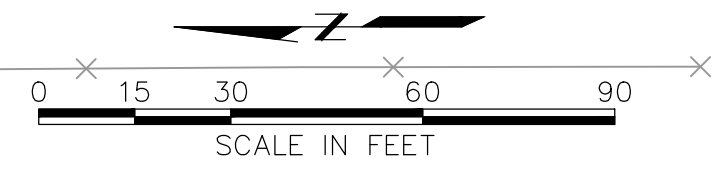
RJH PROJECT 21129

THORNTON JUSTICE CENTER
PHASE III

STAGE 1A CONSTRUCTION
LIMITS

DWG. NO.
A-06

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- NOTES:
1. STAGING AREAS SHALL BE ENCLOSED USING TEMPORARY CHAIN LINK FENCE EXCEPT AT THE ENTRANCE TO TOP LEVEL OF THE PARKING STRUCTURE.
 2. CONSTRUCTION VEHICLES WILL BE ALLOWED TO TRAVEL ACROSS CIVIC CENTER DR AND THROUGH PARKING ACCESS LANES TO ACCESS THE SITE BUT NO PARKING WILL BE ALLOWED. CONSTRUCTION VEHICLES MUST YIELD TO PEDESTRIANS AND PUBLIC TRAFFIC.

LEGEND

STAGE 1B LIMITS OF CONSTRUCTION

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THORNTON JUSTICE CENTER
PHASE III

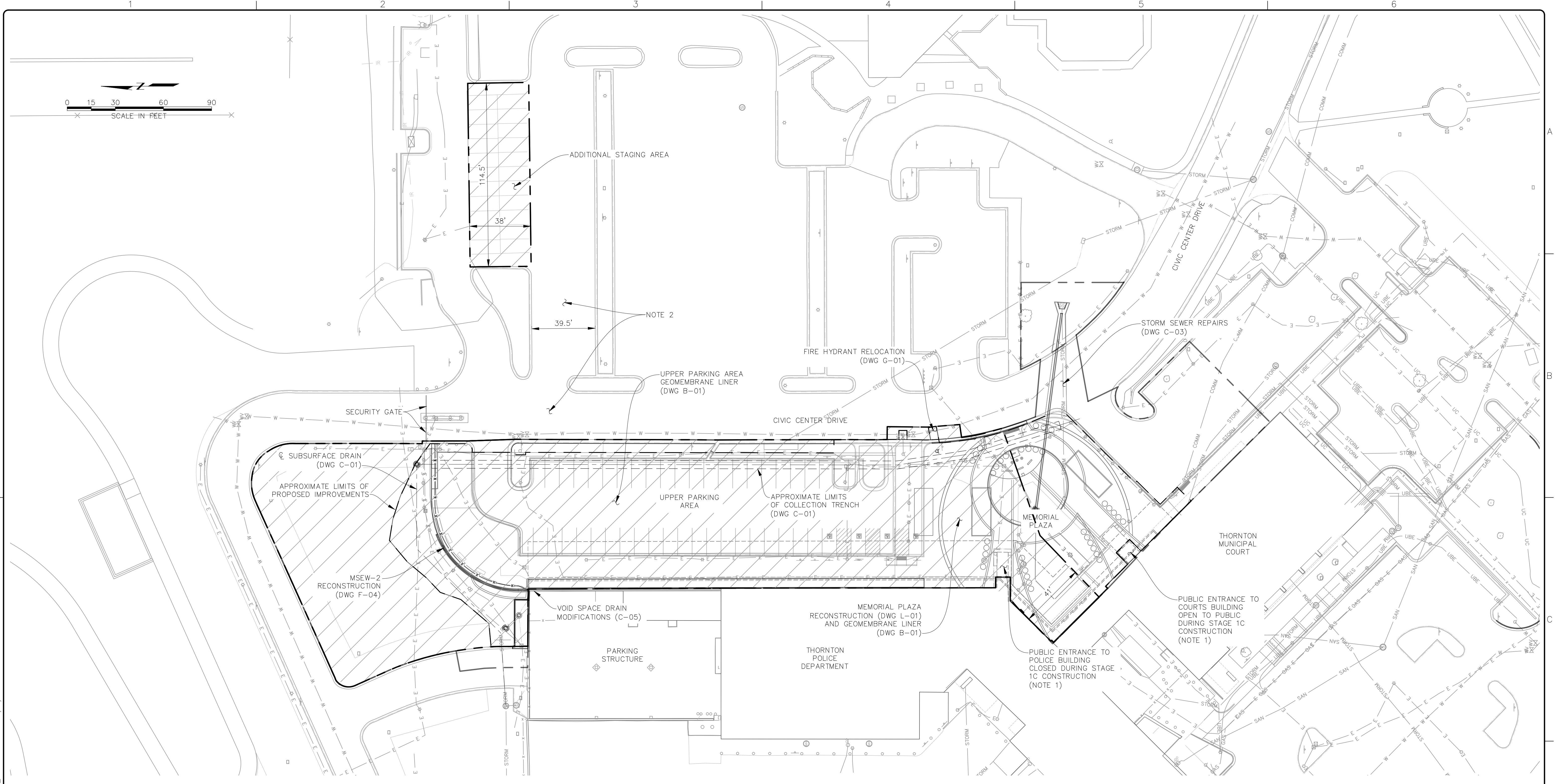
STAGE 1B CONSTRUCTION
LIMITS

RJH PROJECT 21129

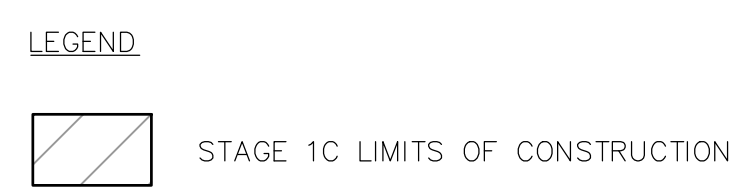
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A-07

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- NOTES:
- PUBLIC ACCESS TO POLICE BUILDING WILL BE MAINTAINED THROUGH COURTS ENTRANCE.
 - CONSTRUCTION VEHICLES WILL BE ALLOWED TO TRAVEL ACROSS CIVIC CENTER DR AND THROUGH PARKING ACCESS LANES TO ACCESS THE SITE BUT NO PARKING WILL BE ALLOWED. CONSTRUCTION VEHICLES MUST YIELD TO PEDESTRIANS AND PUBLIC TRAFFIC.



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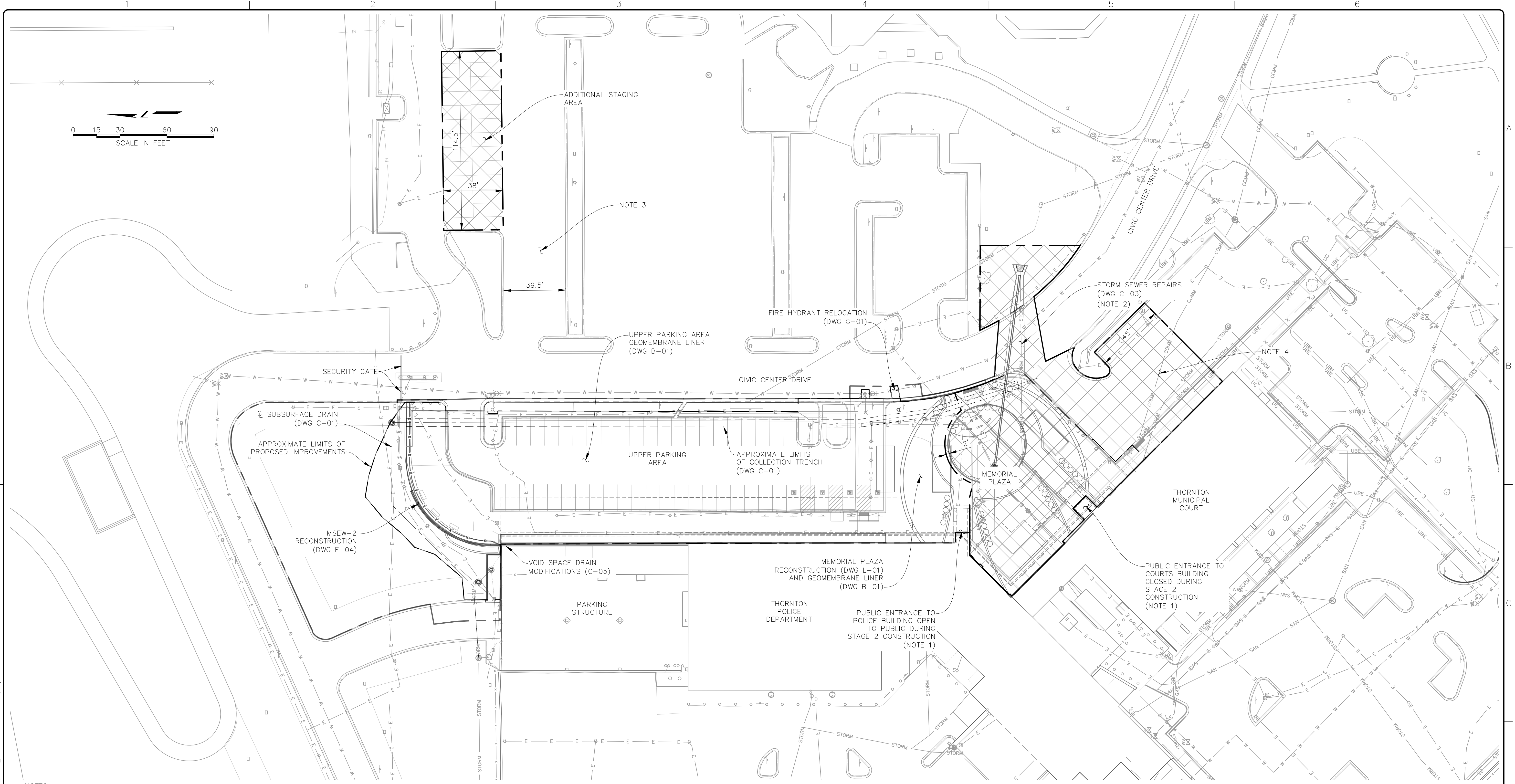
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RJH PROJECT 21129

THORNTON JUSTICE CENTER
PHASE III

STAGE 1C CONSTRUCTION
LIMITS

DWG. NO.
A-08
SHEET NO.
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- NOTES:
- PUBLIC ACCESS TO COURTS BUILDING WILL BE MAINTAINED THROUGH POLICE BUILDING ENTRANCE.
 - STORM SEWER WORK WITHIN THE LIMITS OF CIVIC CENTER DRIVE MUST BE COMPLETED IN SUBSTAGES TO MAINTAIN AT LEAST ONE LANE OF TRAFFIC AT ALL TIMES.
 - CONSTRUCTION VEHICLES WILL BE ALLOWED TO TRAVEL ACROSS CIVIC CENTER DR AND THROUGH PARKING ACCESS LANES TO ACCESS THE SITE BUT NO PARKING WILL BE ALLOWED. CONSTRUCTION VEHICLES MUST YIELD TO PEDESTRIANS AND PUBLIC TRAFFIC.
 - CLOSURE OF STAGING AREA SOUTH OF MEMORIAL PLAZA ONLY ALLOWABLE AFTER ALL STAGE 1 WORK IS COMPLETE AND OPEN TO THE PUBLIC.

LEGEND
 STAGE 2 LIMITS OF CONSTRUCTION

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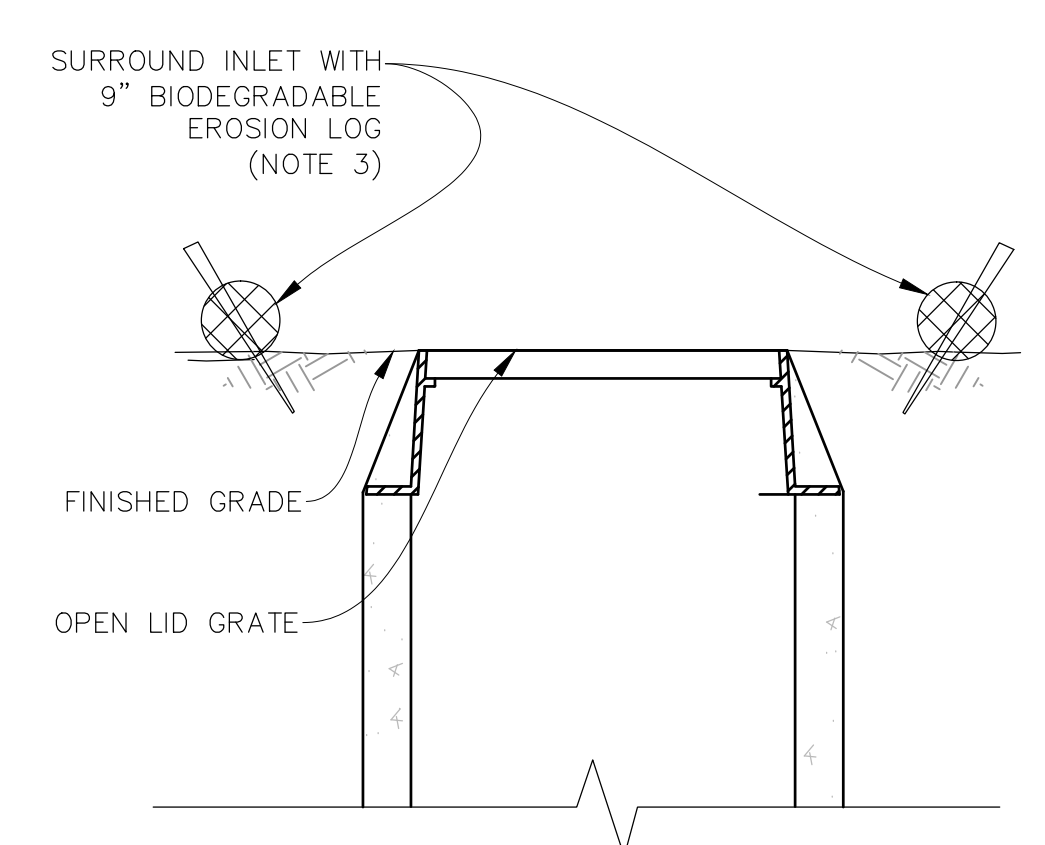
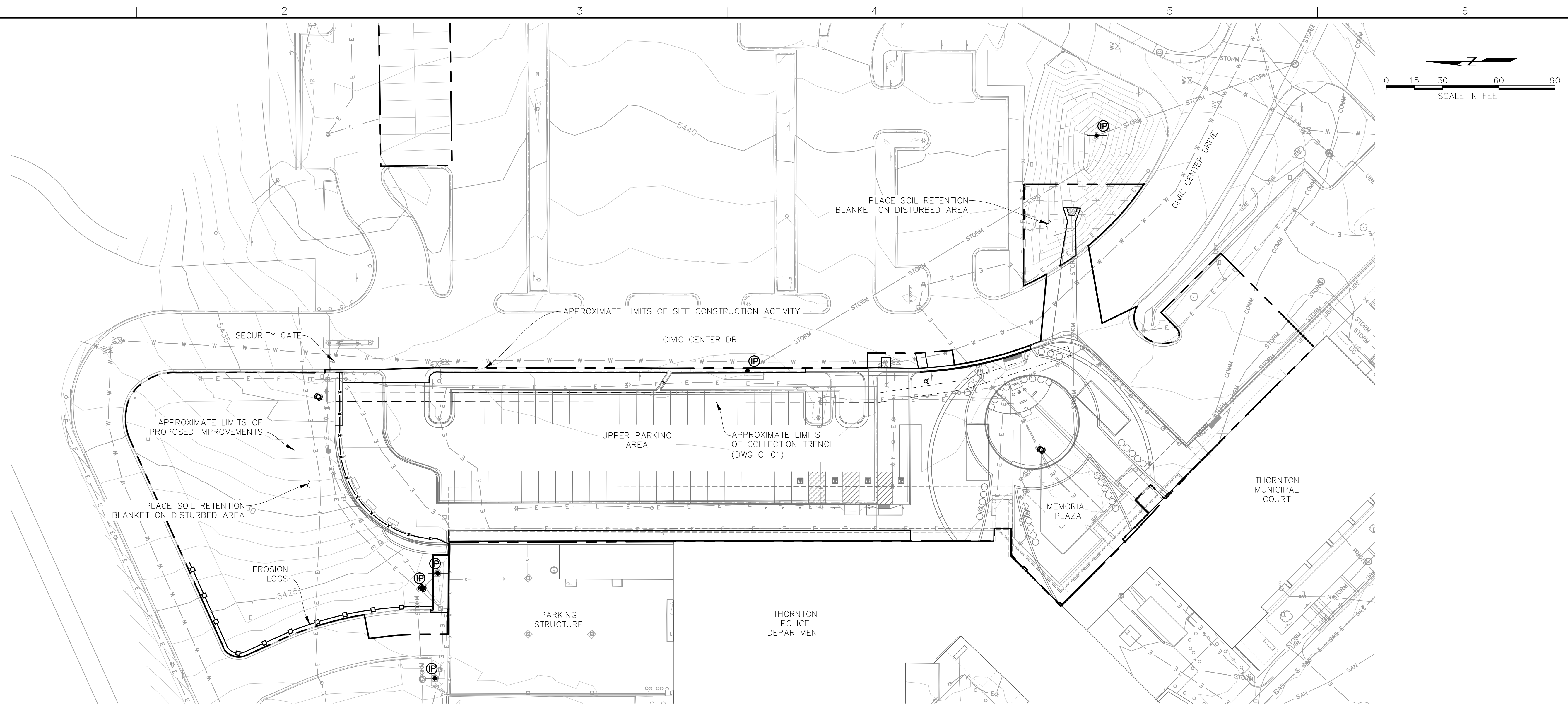
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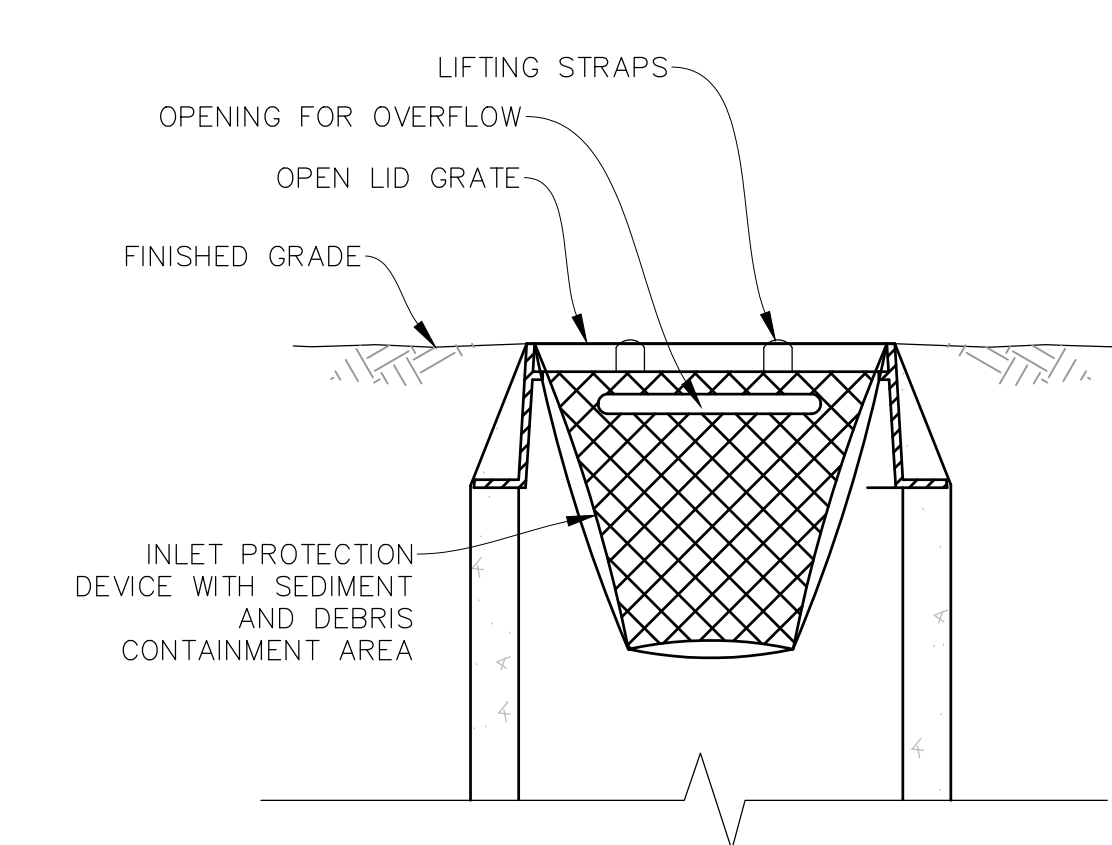
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PHASE III

STAGE 2 CONSTRUCTION
LIMITS

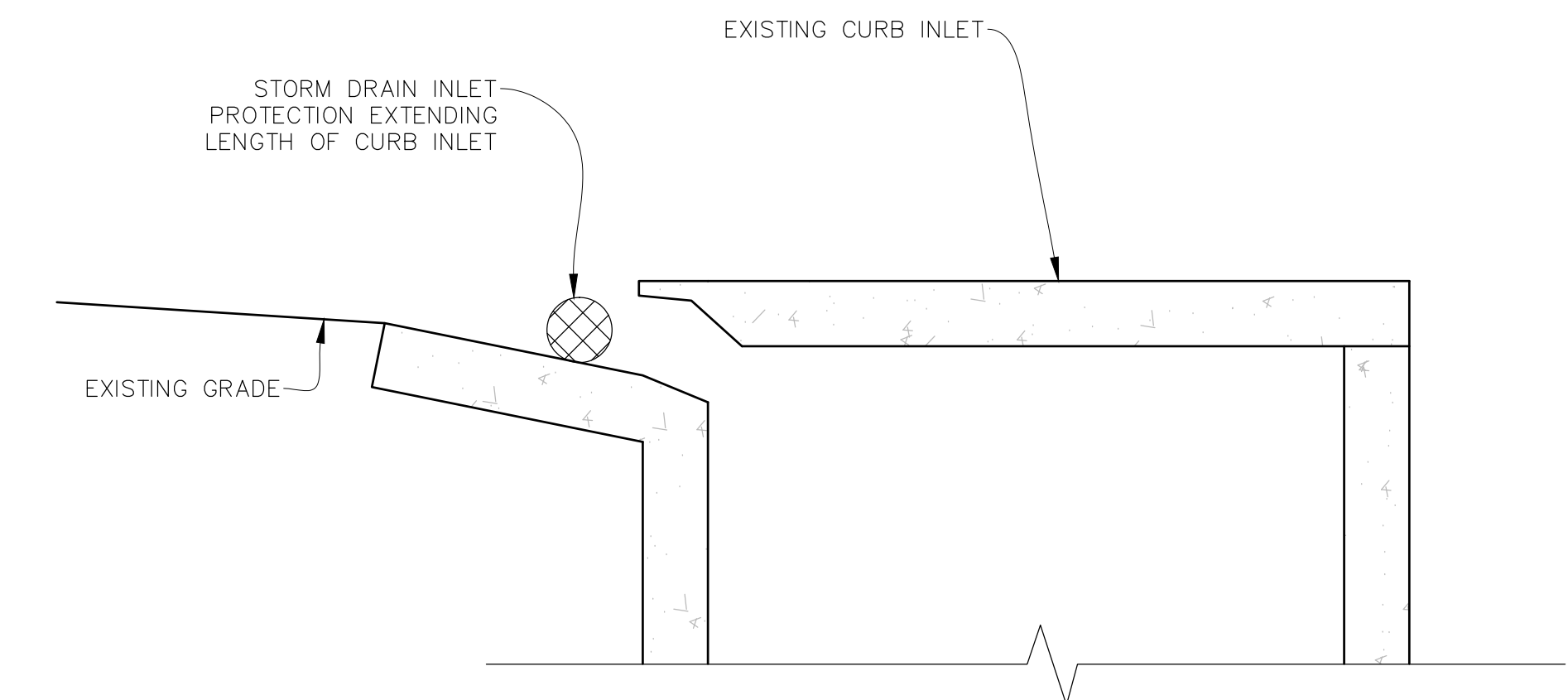
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SURFACE INLET PROTECTION AT LANDSCAPED AREA
NOT TO SCALE



SURFACE INLET PROTECTION AT PAVEMENT
NOT TO SCALE



CURB INLET PROTECTION
NOT TO SCALE

- NOTE:
1. NEW OPEN LID INLETS SHALL BE PROTECTED WITH INLET PROTECTION FOR ALL SUBSEQUENT STAGES AFTER INSTALLATION.
 2. EXISTING OPEN LID INLETS IN THE PARKING AREA AND LANDSCAPED AREA SHALL BE PROTECTED AT ALL TIMES DURING CONSTRUCTION.
 3. STAKES FOR EROSION LOGS SHOULD BE WOOD STAKES SPACED EVERY 24". LOGS SHALL EXTEND A MIN. OF 2" INTO THE GROUND. STAKES ORIENTATION SHALL ALTERNATE FOR REACH STAKE AND SHALL NOT EXTEND MORE THAN 2" ABOVE THE EROSION LOG.
 4. A VEHICLE TRACKING CONTROL DEVICE SHALL BE PLACED AT ALL ENTRANCES/EXITS FROM THE SITE AS WELL AS ANY EGRESS FROM EXPOSED DIRT TO PAVED AREAS.

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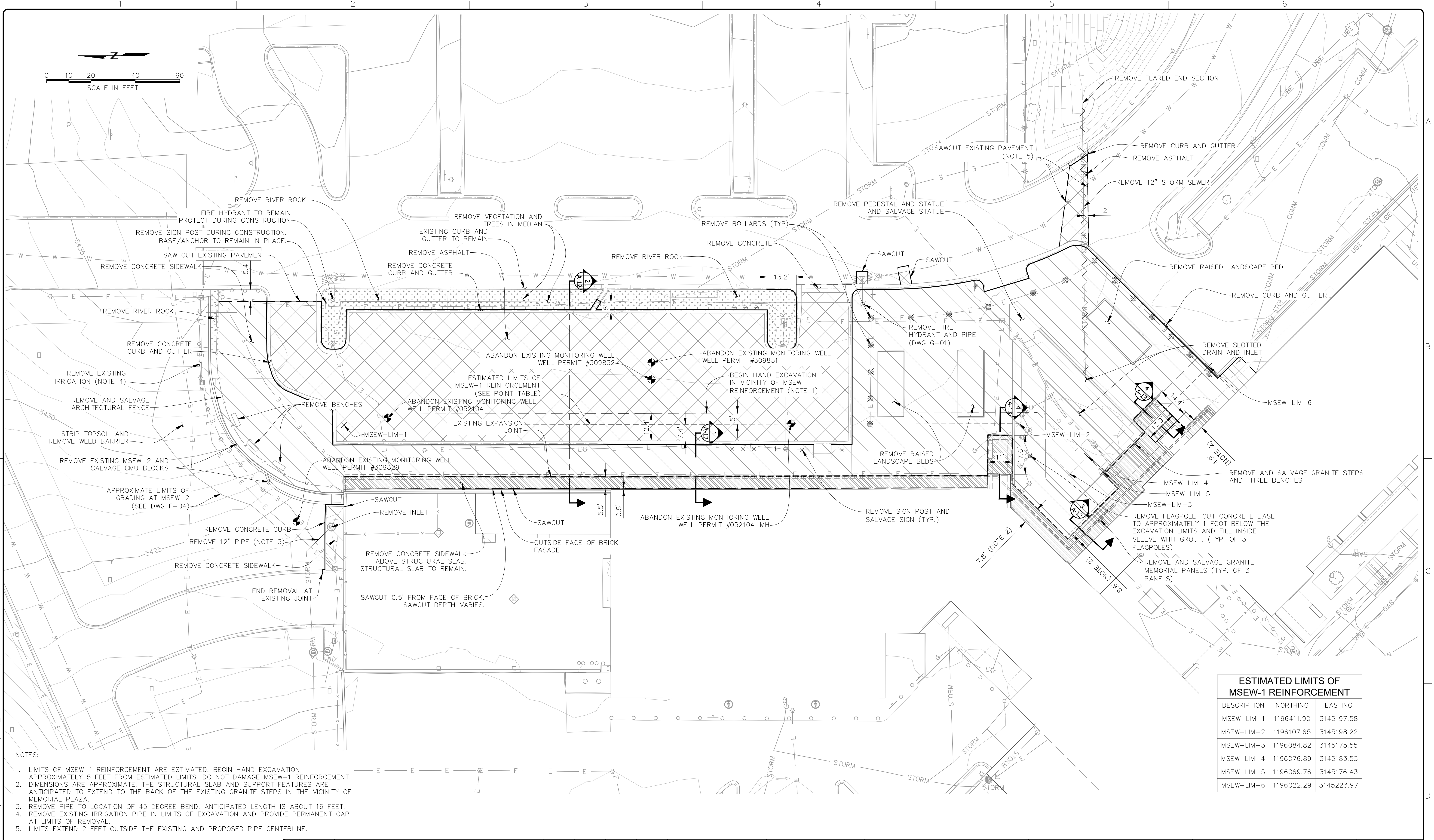


RJH PROJECT 21129

THORNTON JUSTICE CENTER
PHASE III

EROSION CONTROL PLAN
AND DETAILS

DWG. NO.
A-10
SHEET NO.
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- NOTES:
- LIMITS OF MSEW-1 REINFORCEMENT ARE ESTIMATED. BEGIN HAND EXCAVATION APPROXIMATELY 5 FEET FROM ESTIMATED LIMITS. DO NOT DAMAGE MSEW-1 REINFORCEMENT.
 - DIMENSIONS ARE APPROXIMATE. THE STRUCTURAL SLAB AND SUPPORT FEATURES ARE ANTICIPATED TO EXTEND TO THE BACK OF THE EXISTING GRANITE STEPS IN THE VICINITY OF MEMORIAL PLAZA.
 - REMOVE PIPE TO LOCATION OF 45 DEGREE BEND. ANTICIPATED LENGTH IS ABOUT 16 FEET.
 - REMOVE EXISTING IRRIGATION PIPE IN LIMITS OF EXCAVATION AND PROVIDE PERMANENT CAP AT LIMITS OF REMOVAL.
 - LIMITS EXTEND 2 FEET OUTSIDE THE EXISTING AND PROPOSED PIPE CENTERLINE.

ESTIMATED LIMITS OF MSEW-1 REINFORCEMENT		
DESCRIPTION	NORTHING	EASTING
MSEW-LIM-1	1196411.90	3145197.58
MSEW-LIM-2	1196107.65	3145198.22
MSEW-LIM-3	1196084.82	3145175.55
MSEW-LIM-4	1196076.89	3145183.53
MSEW-LIM-5	1196069.76	3145176.43
MSEW-LIM-6	1196022.29	3145223.97

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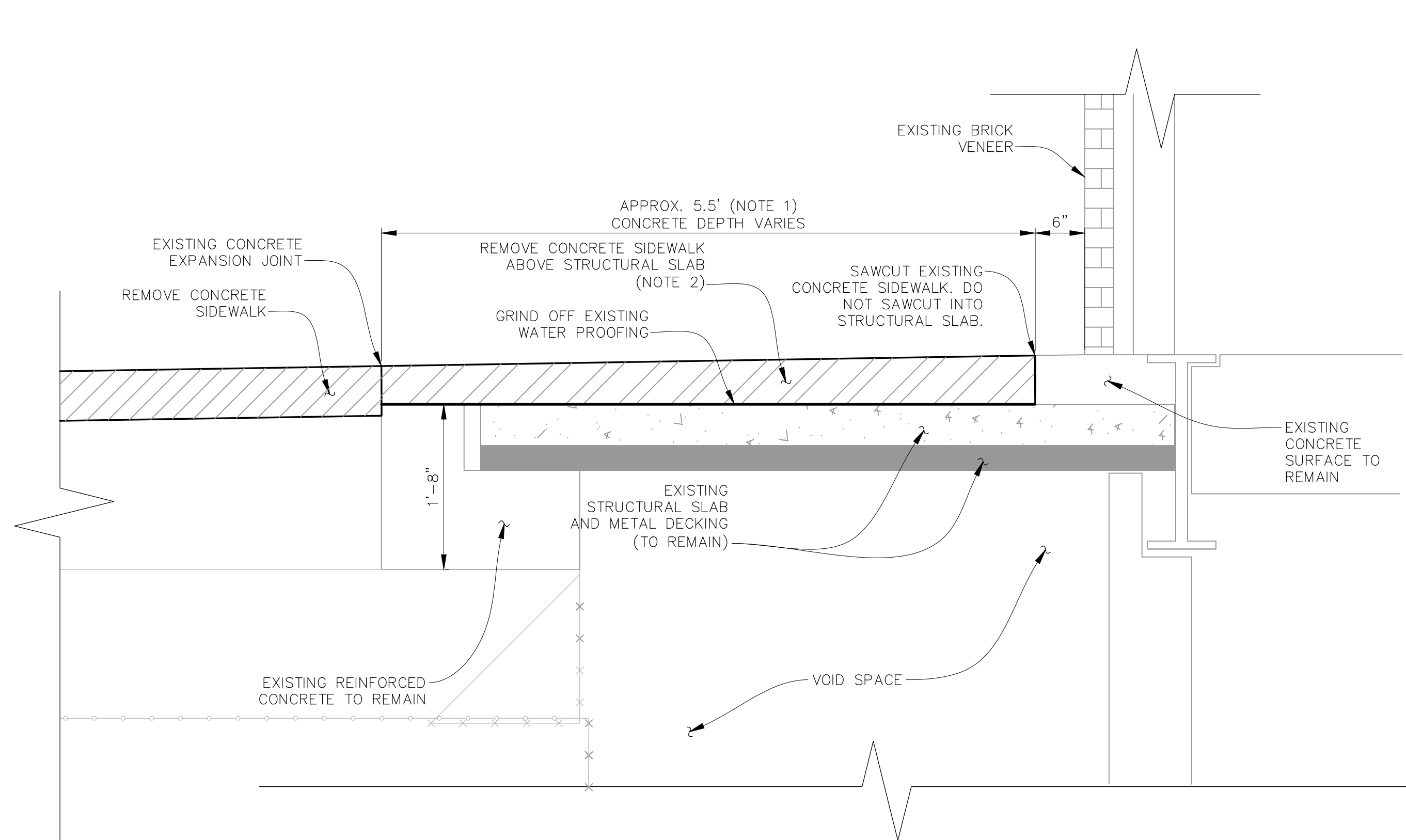
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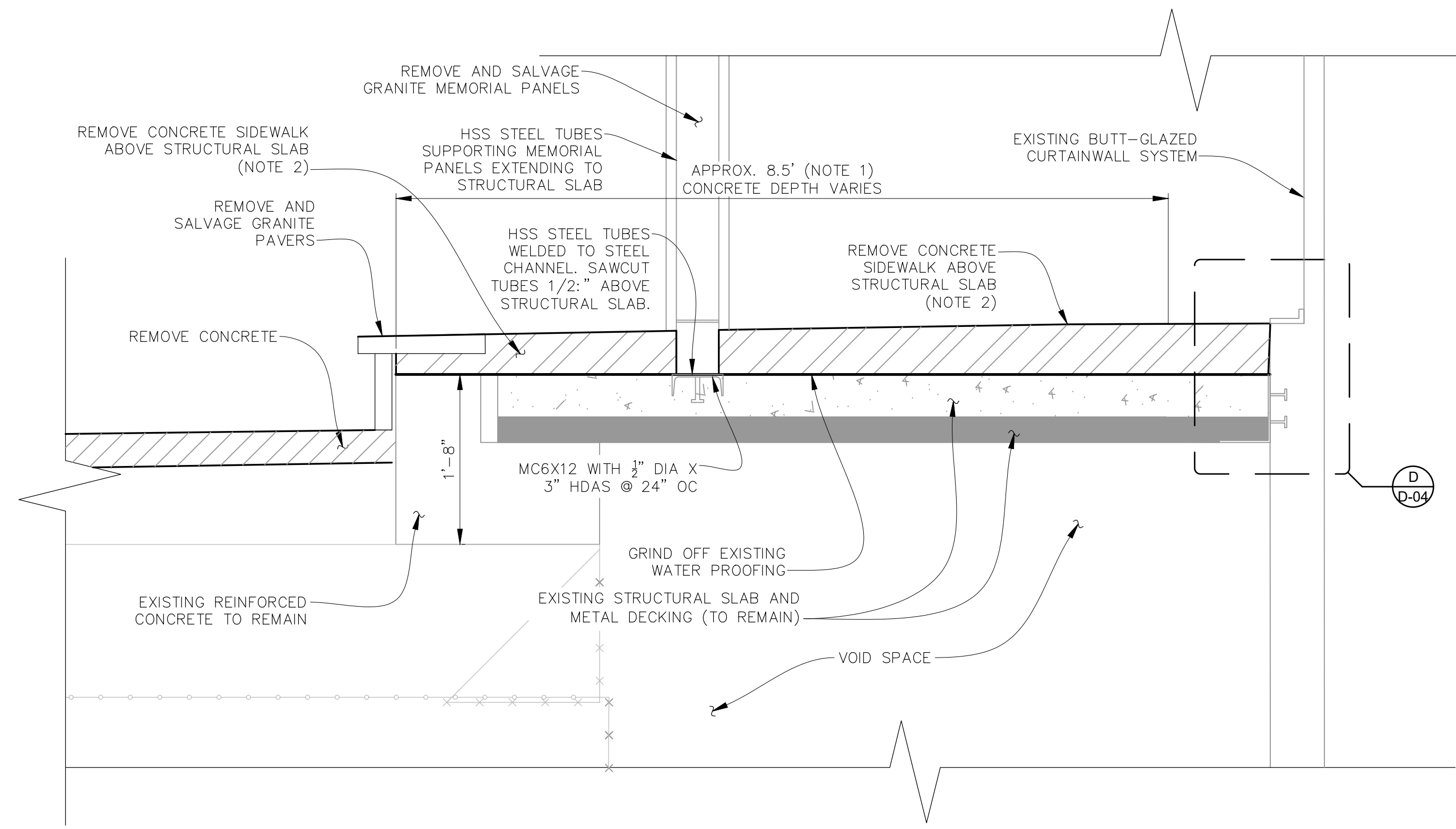
THORNTON JUSTICE CENTER
PHASE III

DEMOLITION PLAN

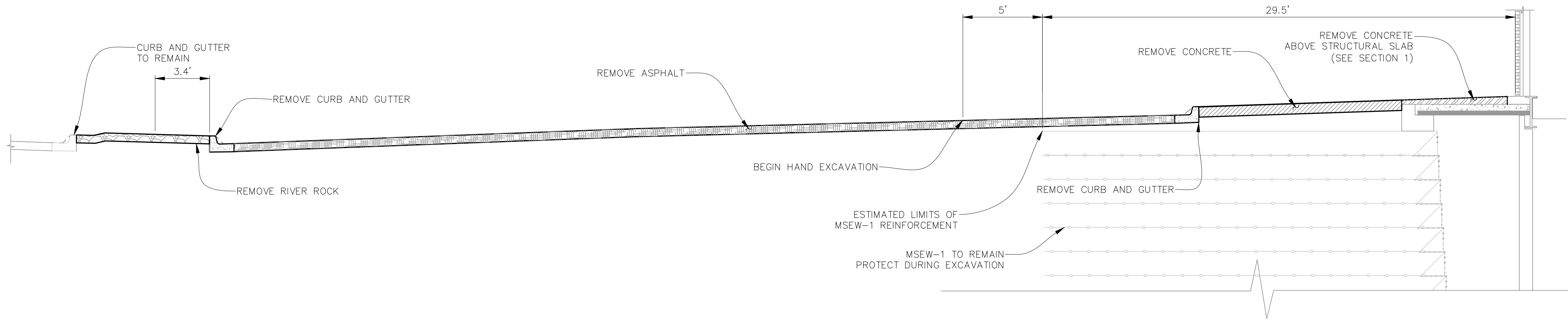
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A-11
SHEET NO.
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SECTION 1 A-11
 0 0.5 1 2 3
 SCALE IN FEET



SECTION 3 A-11
 0 0.5 1 2 3
 SCALE IN FEET



SECTION 2 A-11
 0 2 4 8 12
 SCALE IN FEET

NOTES:
 1. DIMENSION IS APPROXIMATE AND MAY VARY BASED ON FIELD CONDITIONS.
 2. PERFORM A MINIMUM OF 5 CORE HOLES ALONG THE LENGTH OF THE STRUCTURAL SLAB TO DETERMINE DEPTH TO STRUCTURAL SLAB PRIOR TO SAWCUTTING. REMOVE SIDEWALK SLAB WITHOUT DAMAGING STRUCTURAL SLAB. REMOVAL SHALL BE COMPLETED USING HAND TOOLS TO THE DEPTH OF THE SURFACE SLAB. DO NOT DAMAGE STRUCTURAL SLAB.

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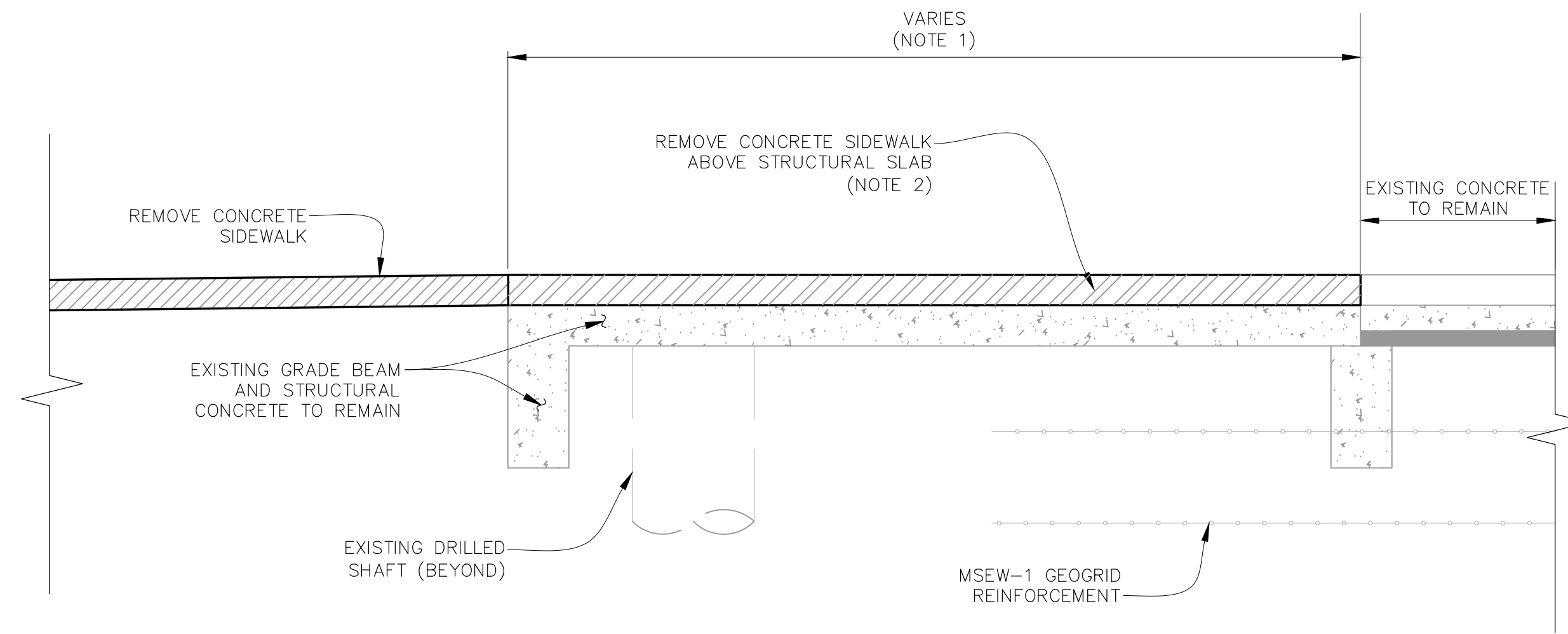
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THORNTON JUSTICE CENTER PHASE III

DEMOLITION SECTIONS (1 OF 2)

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 SHEET NO. 12 of 46

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SECTION 4
A-11

0 1 2 4 6
 SCALE IN FEET

NOTES:

1. DIMENSIONS ARE APPROXIMATE. DIMENSIONS WILL VARY BASED ON FIELD CONDITIONS.
2. PERFORM A MINIMUM OF 2 CORE HOLES ALONG THE LENGTH OF THE STRUCTURAL SLAB TO DETERMINE DEPTH TO STRUCTURAL SLAB PRIOR TO SAWCUTTING. REMOVE SIDEWALK SLAB WITHOUT DAMAGING STRUCTURAL SLAB. REMOVAL SHALL BE COMPLETED USING HAND TOOLS TO THE DEPTH OF THE SURFACE SLAB. DO NOT DAMAGE STRUCTURAL SLAB.

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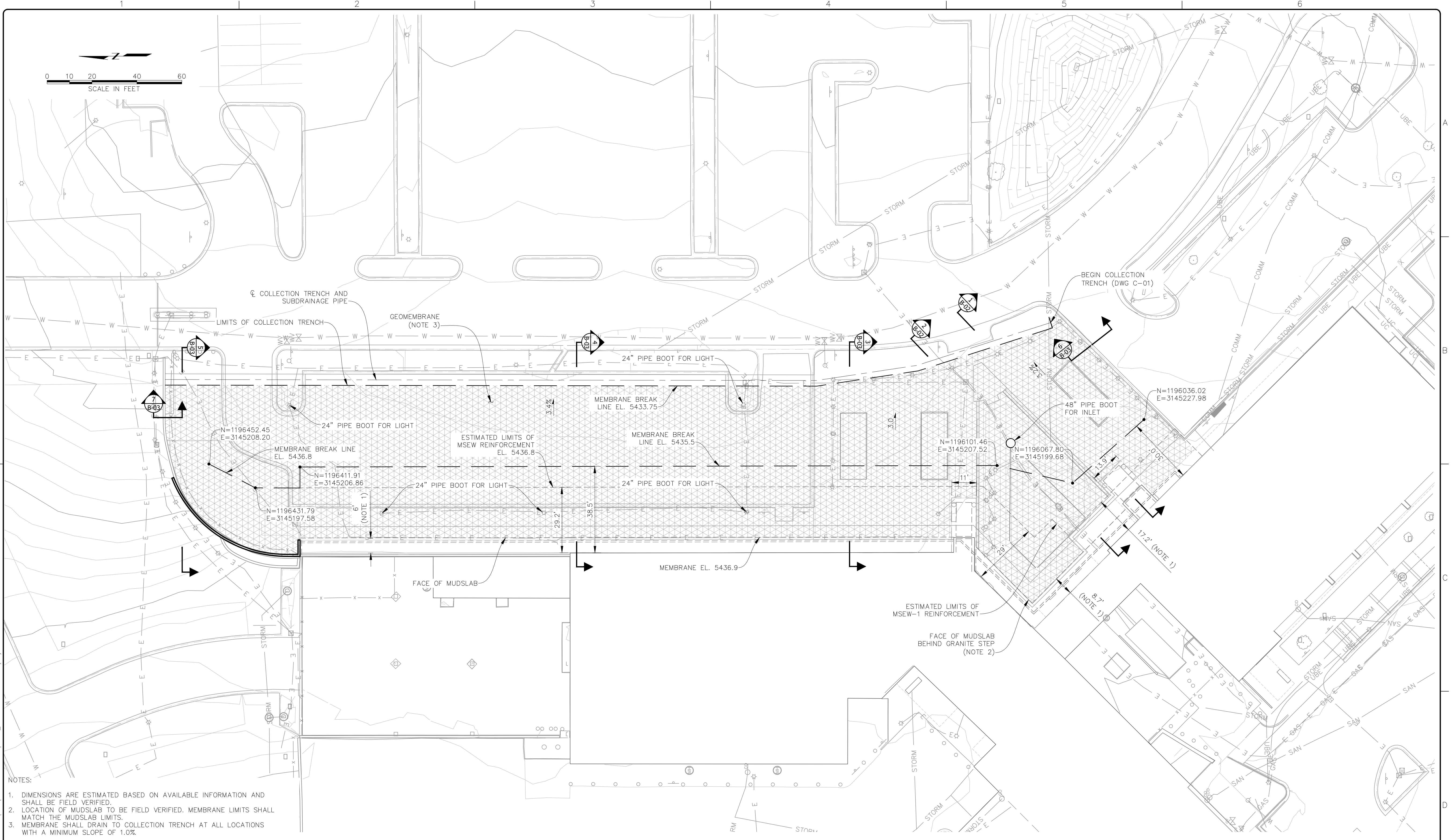
RJH PROJECT 21129

THORNTON JUSTICE CENTER
 PHASE III

DEMOLITION SECTIONS (2
 OF 2)

DWG. NO.
A-13

SHEET NO.
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- NOTES:
1. DIMENSIONS ARE ESTIMATED BASED ON AVAILABLE INFORMATION AND SHALL BE FIELD VERIFIED.
 2. LOCATION OF MUDSLAB TO BE FIELD VERIFIED. MEMBRANE LIMITS SHALL MATCH THE MUDSLAB LIMITS.
 3. MEMBRANE SHALL DRAIN TO COLLECTION TRENCH AT ALL LOCATIONS WITH A MINIMUM SLOPE OF 1.0%.

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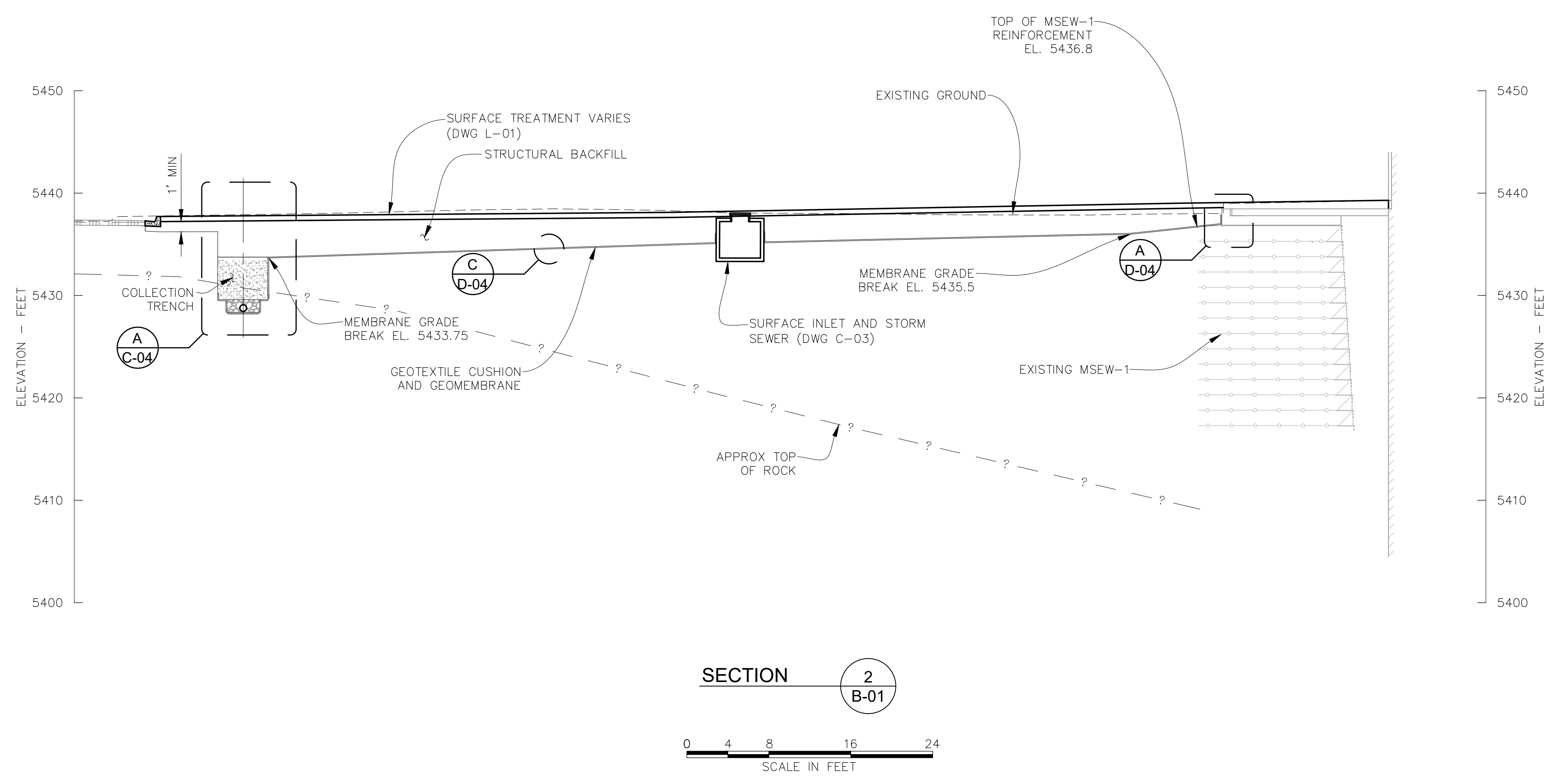
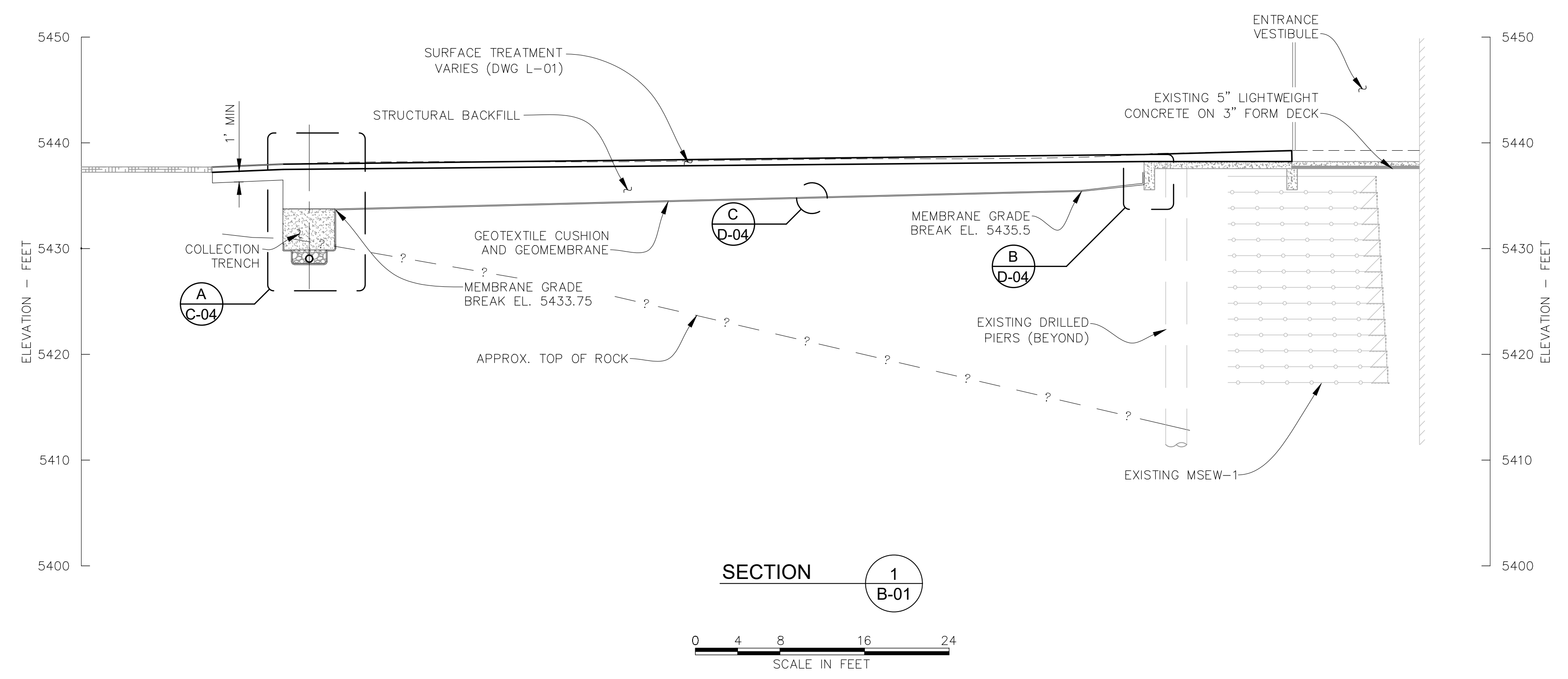
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THORNTON JUSTICE CENTER PHASE III

UPPER PARKING AREA AND MEMORIAL PLAZA GEOMEMBRANE PLAN

DWG. NO. **B-01**
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RJH PROJECT 21129



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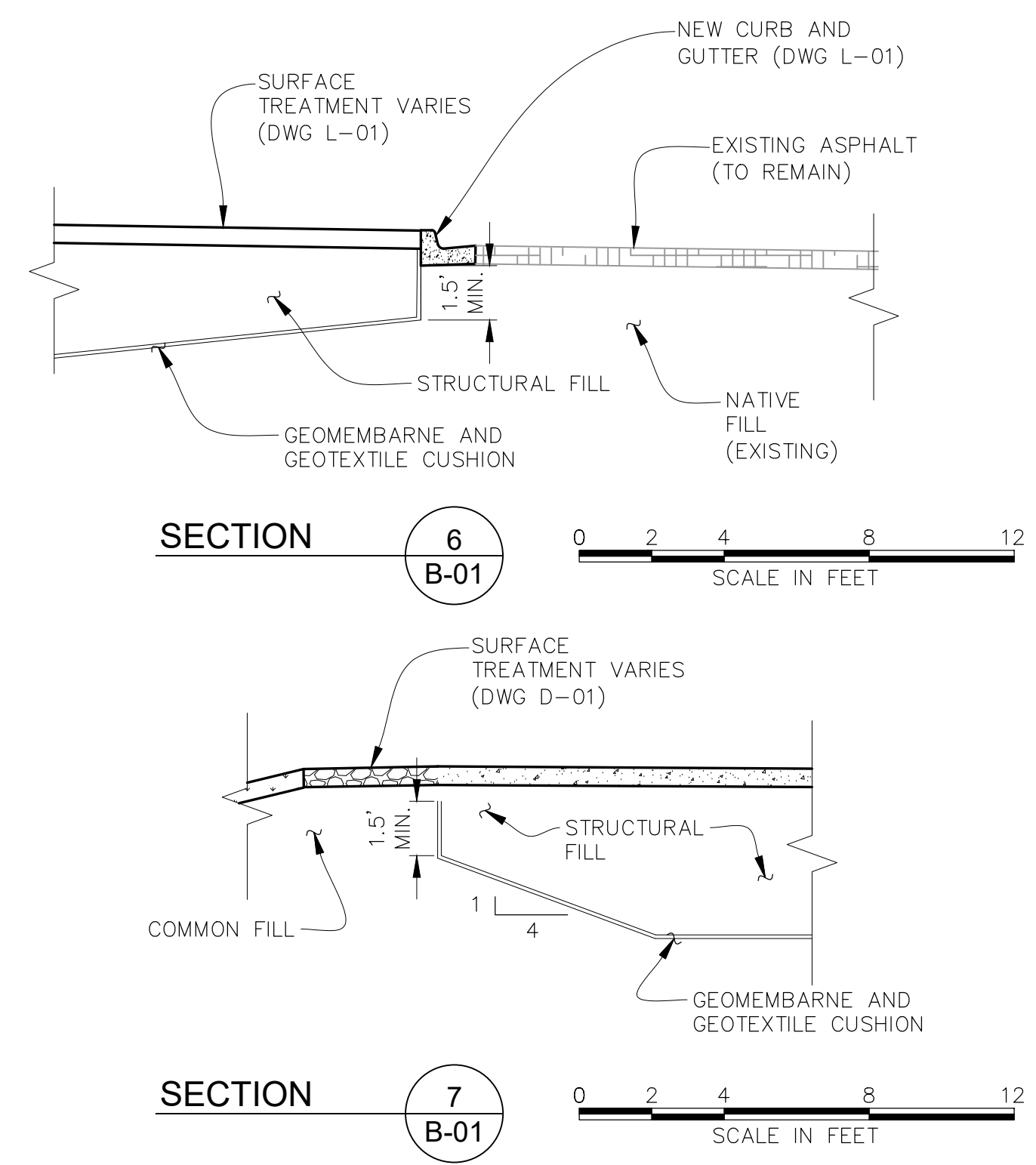
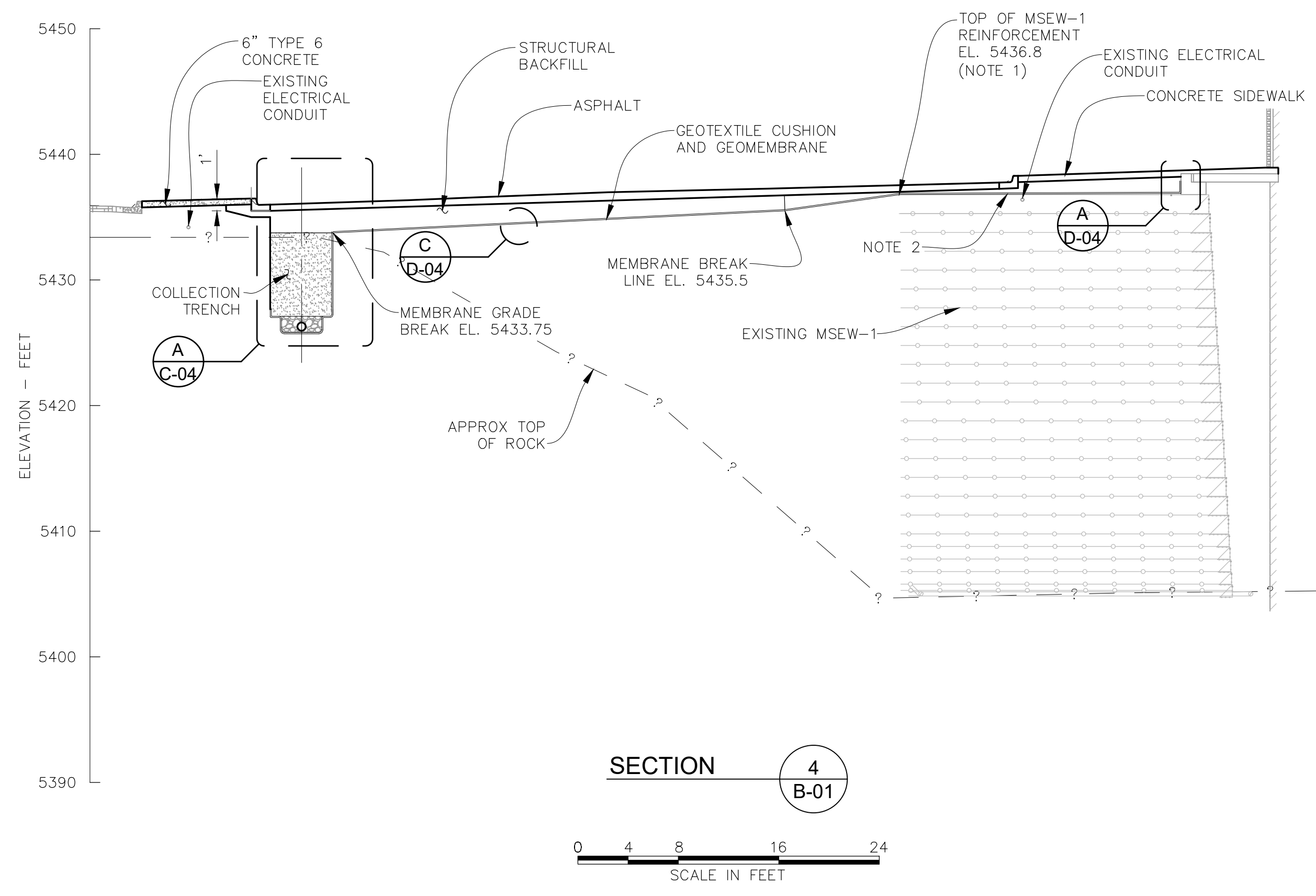
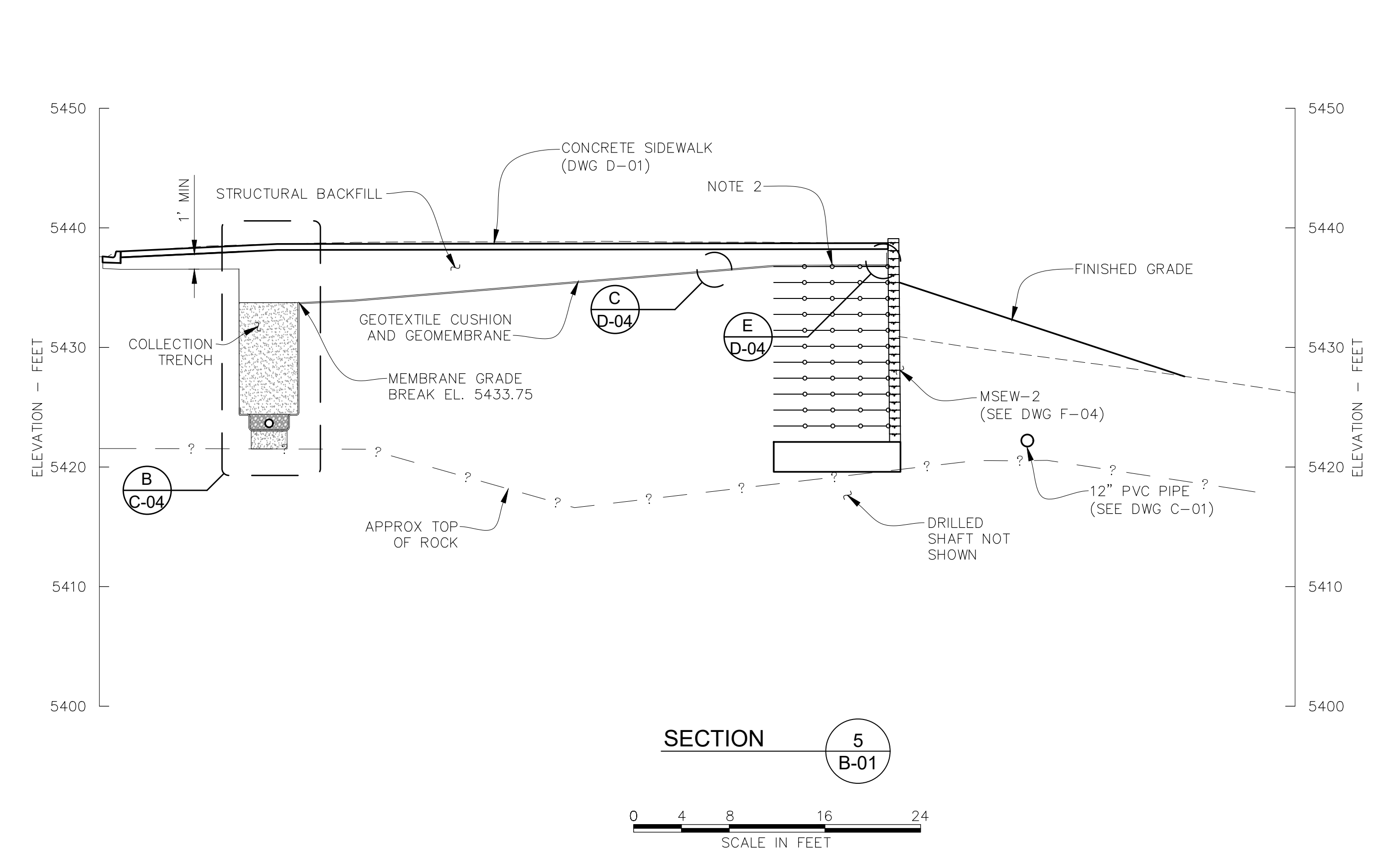
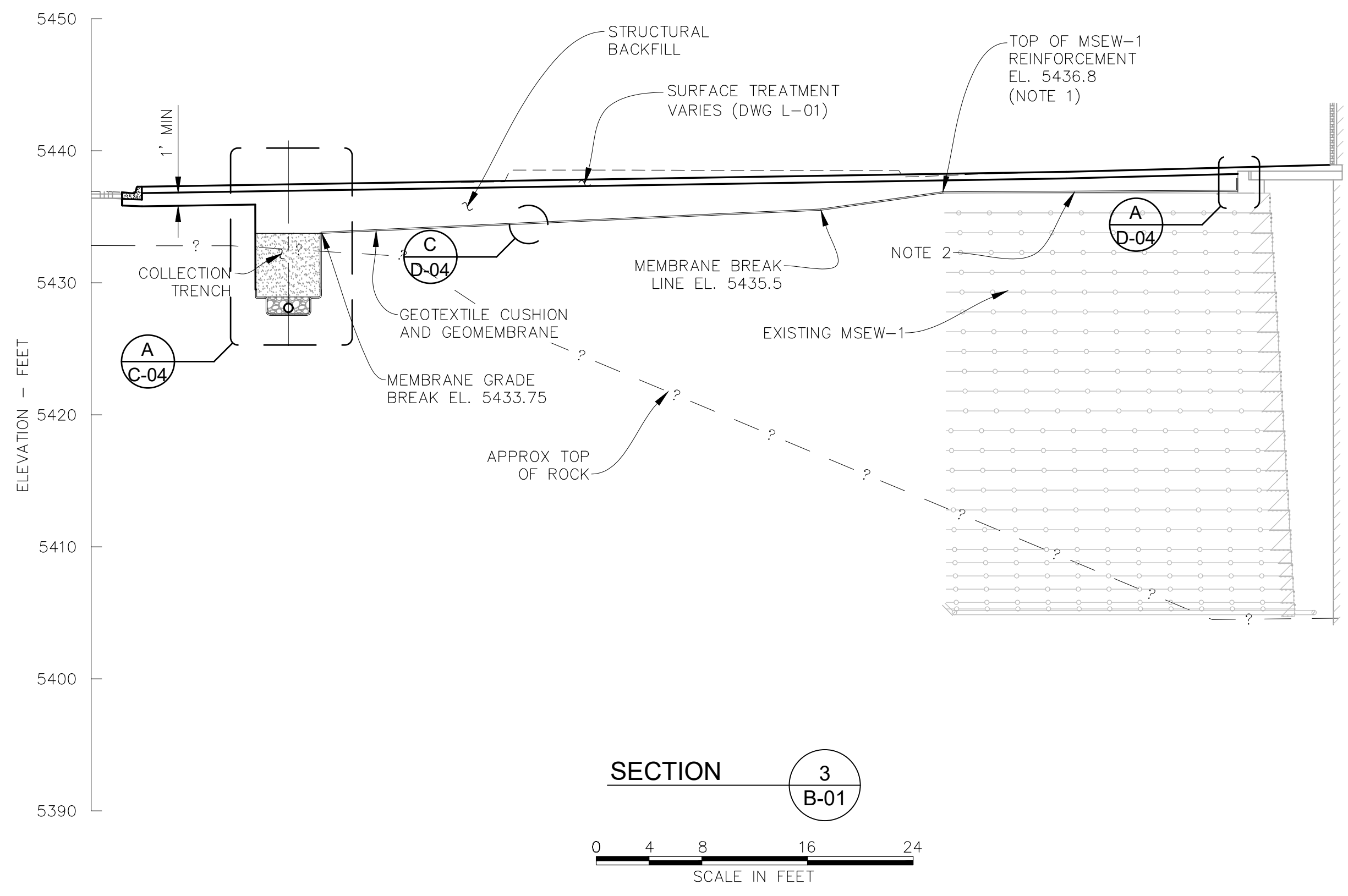


RJH PROJECT 21129

THORNTON JUSTICE CENTER PHASE III

GEOMEMBRANE SECTIONS (1 OF 2)

DWG. NO. **B-02**
SHEET NO. 15 of 46



- NOTES:
1. PLACE GEOMEMBRANE DIRECTLY ON TOP OF MSEW-1 REINFORCEMENT.
 2. MAINTAIN A SLOPE OF 0.5% TOWARDS SUBSURFACE DRAIN.

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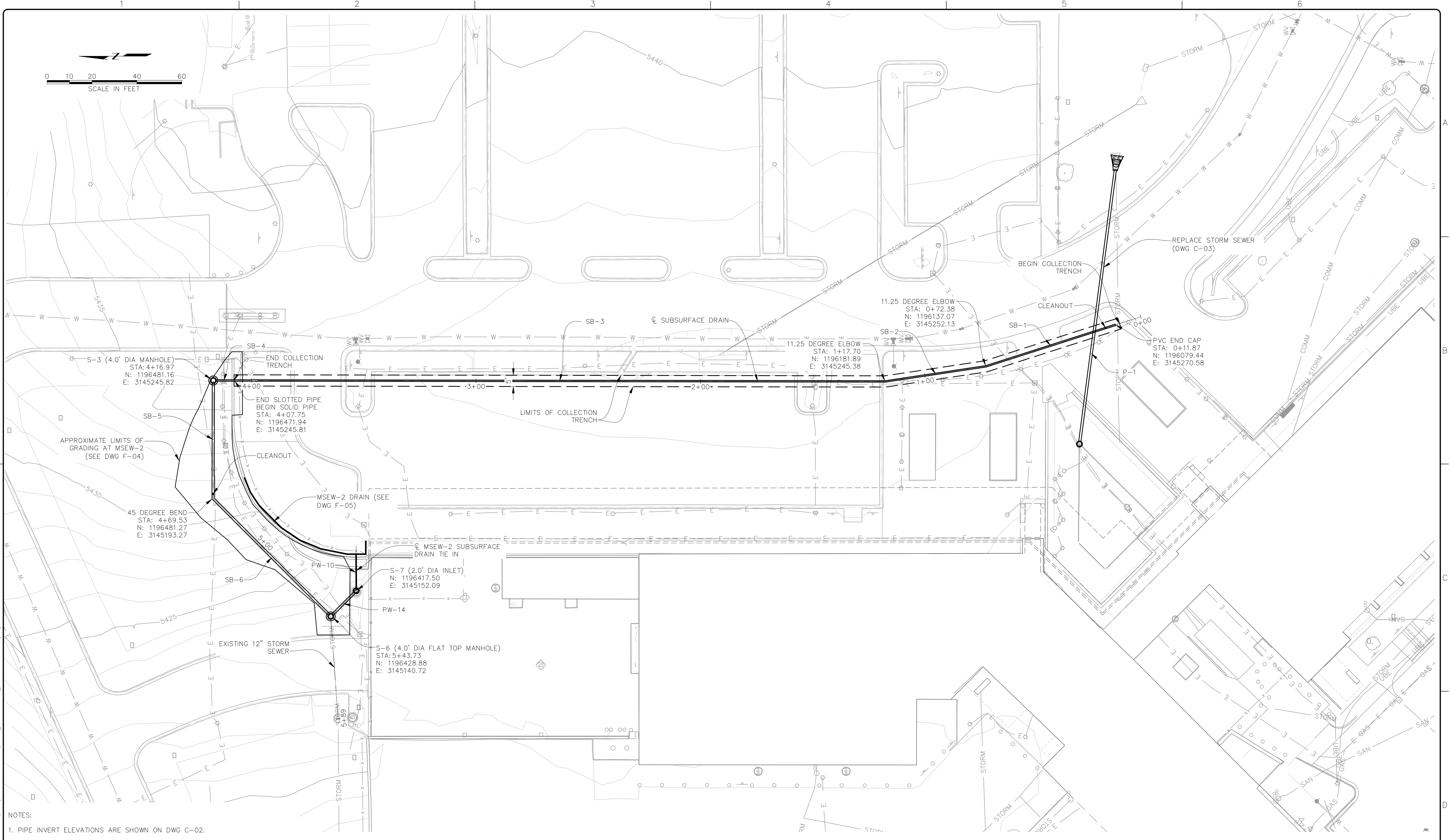
GEOMEMBRANE SECTIONS
(2 OF 2)

DWG. NO.
B-03

SHEET NO.
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RJH PROJECT 21129

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NOTES:
 1. PIPE INVERT ELEVATIONS ARE SHOWN ON DWG C-02.

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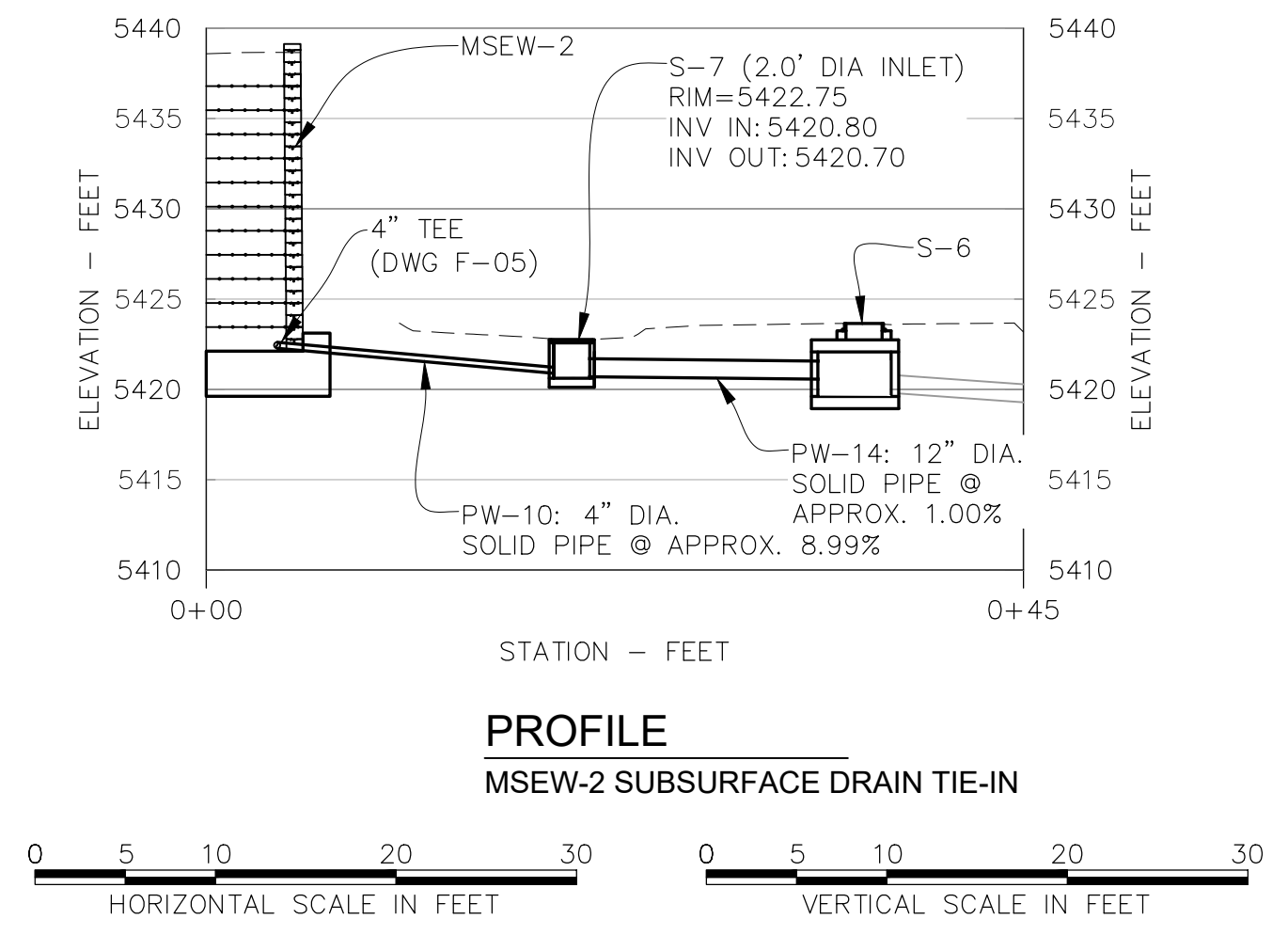
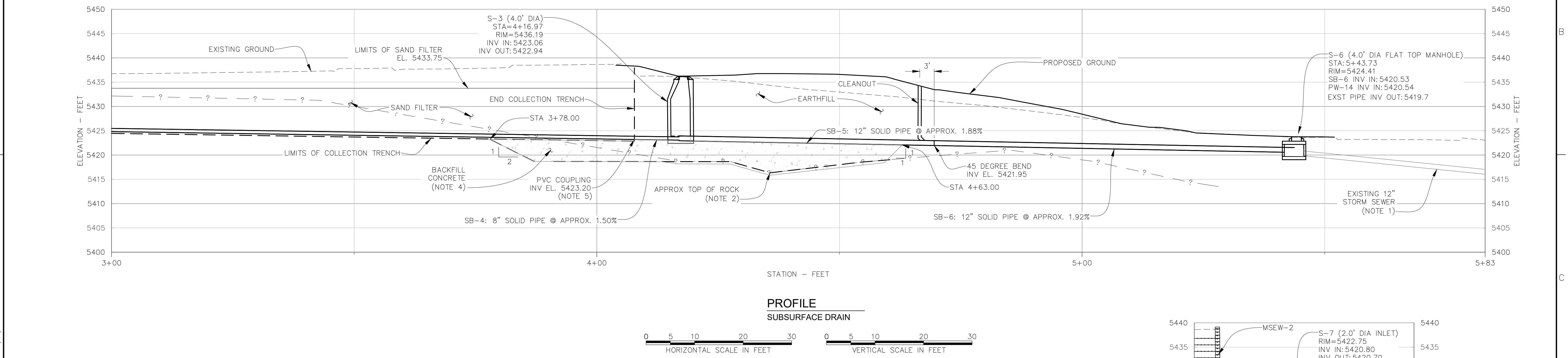
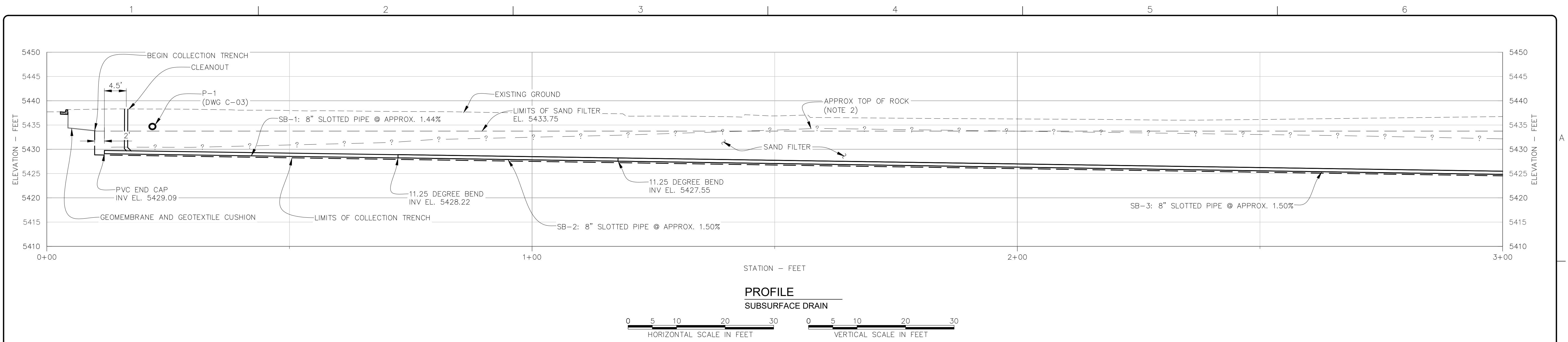
THORNTON JUSTICE CENTER
 PHASE III

SUBSURFACE DRAINAGE
 PLAN

DWG. NO.
C-01
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RJH PROJECT 21129

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- NOTES:
- DEPTH AND INVERT TO BE VERIFIED IN THE FIELD.
 - APPROX TOP OF ROCK PROFILE DEVELOPED BASED ON DATA FROM SUBSURFACE INVESTIGATION. SUBSURFACE STRATIGRAPHY IS ONLY KNOWN AT THE BORING LOCATIONS AND MAY VARY ALONG THE PROFILE.
 - PIPE SLOPES ARE SHOWN AS APPROXIMATE. ACTUAL SLOPE SHALL BE BASED ON THE PIPE INVERT ELEVATIONS AND STRUCTURE LOCATIONS.
 - DEPTH OF BACKFILL CONCRETE TO BE FIELD VERIFIED WITH ENGINEER BASED ON ACTUAL SUBSURFACE CONDITIONS. BACKFILL CONCRETE MINIMUM 6" BELOW TOP OF ROCK.
 - PVC COUPLING TO TRANSITION FROM SLOTTED TO SOLID PIPE. PROVIDE PIPE BOOT AROUND PVC COUPLING TO SEAL GEOMEMBRANE.

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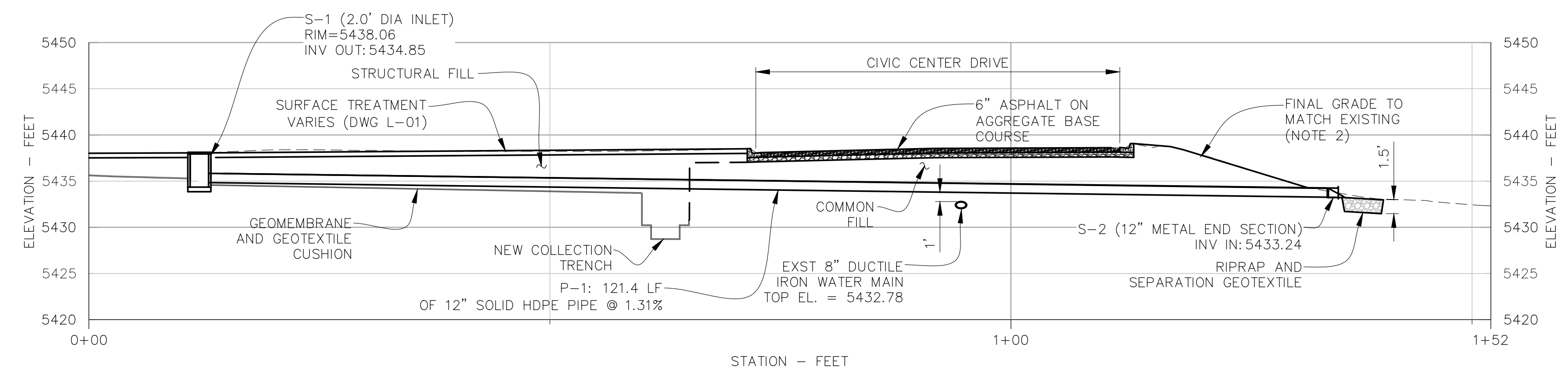
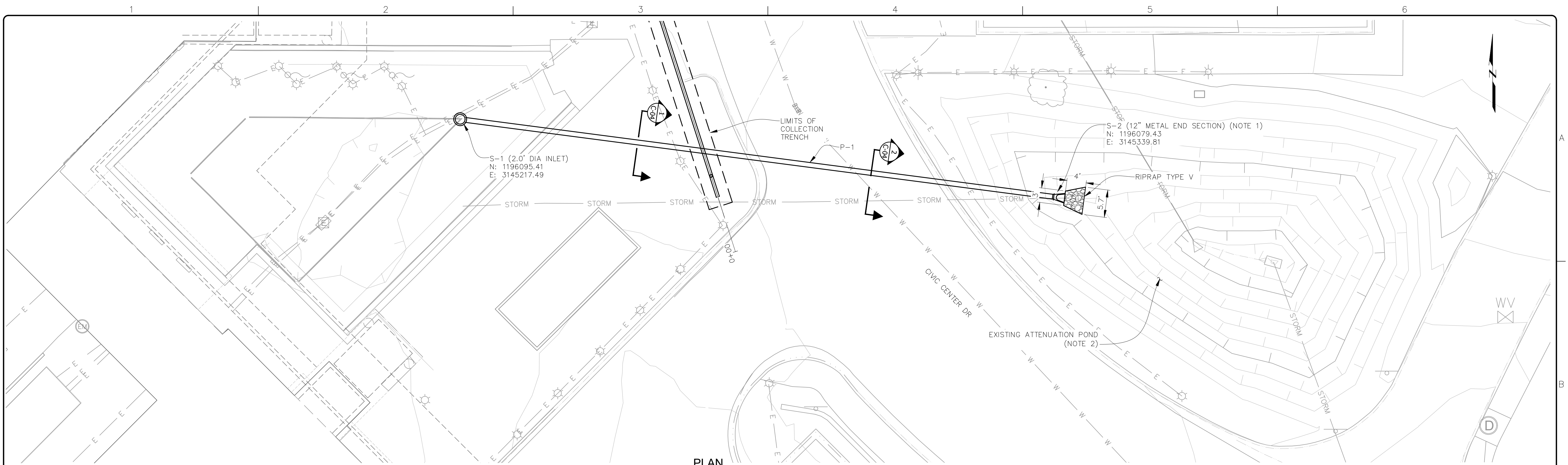
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THORNTON JUSTICE CENTER
PHASE III

SUBSURFACE DRAINAGE
PROFILE

DWG. NO.
C-02
SHEET NO.
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- NOTES:
1. END SECTION SHALL BE 12" METAL END SECTION MEETING CDOT STANDARD PLAN NO. M-603-10. PROVIDE COUPLING FOR HDPE PIPE AND METAL COUPLING.
 2. RE-ESTABLISH VEGETATION IN ATTENUATION POND.

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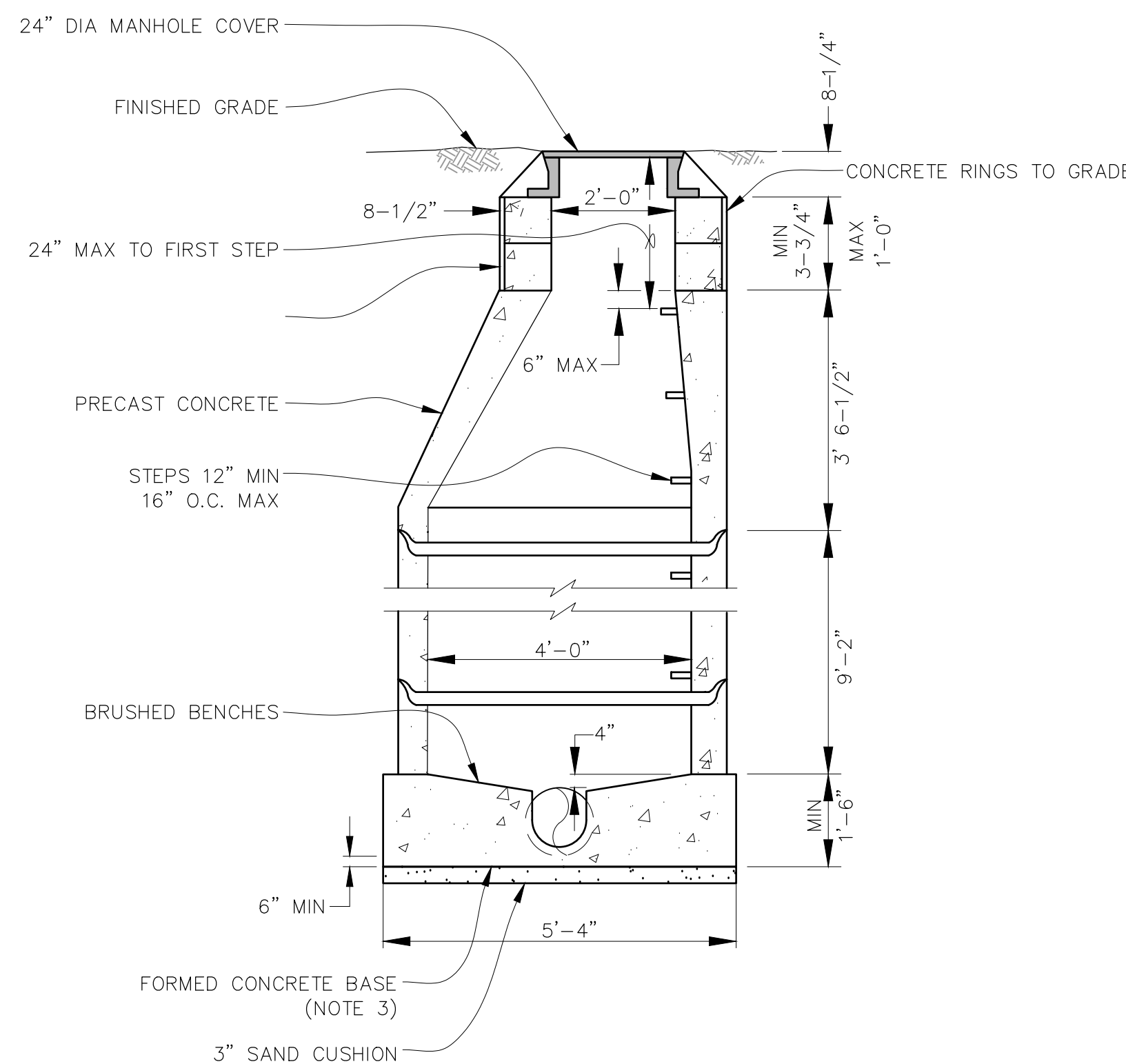


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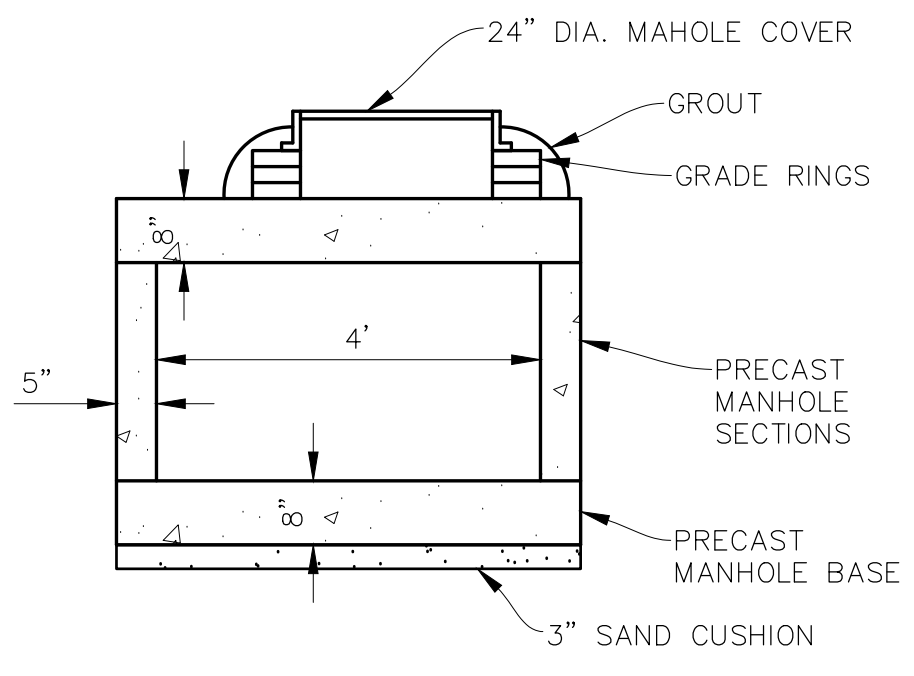
THORNTON JUSTICE CENTER
PHASE III

MEMORIAL PLAZA STORM
SEWER PLAN AND PROFILE

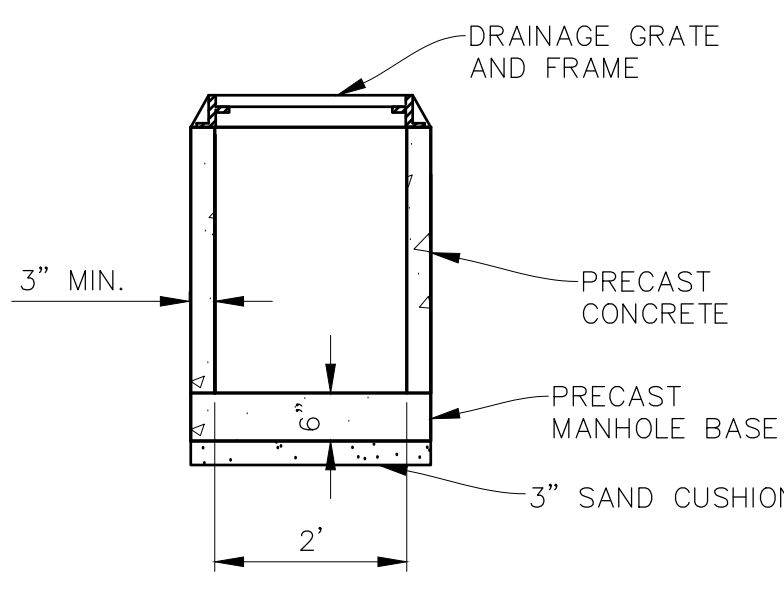
DWG. NO.
C-03
SHEET NO.
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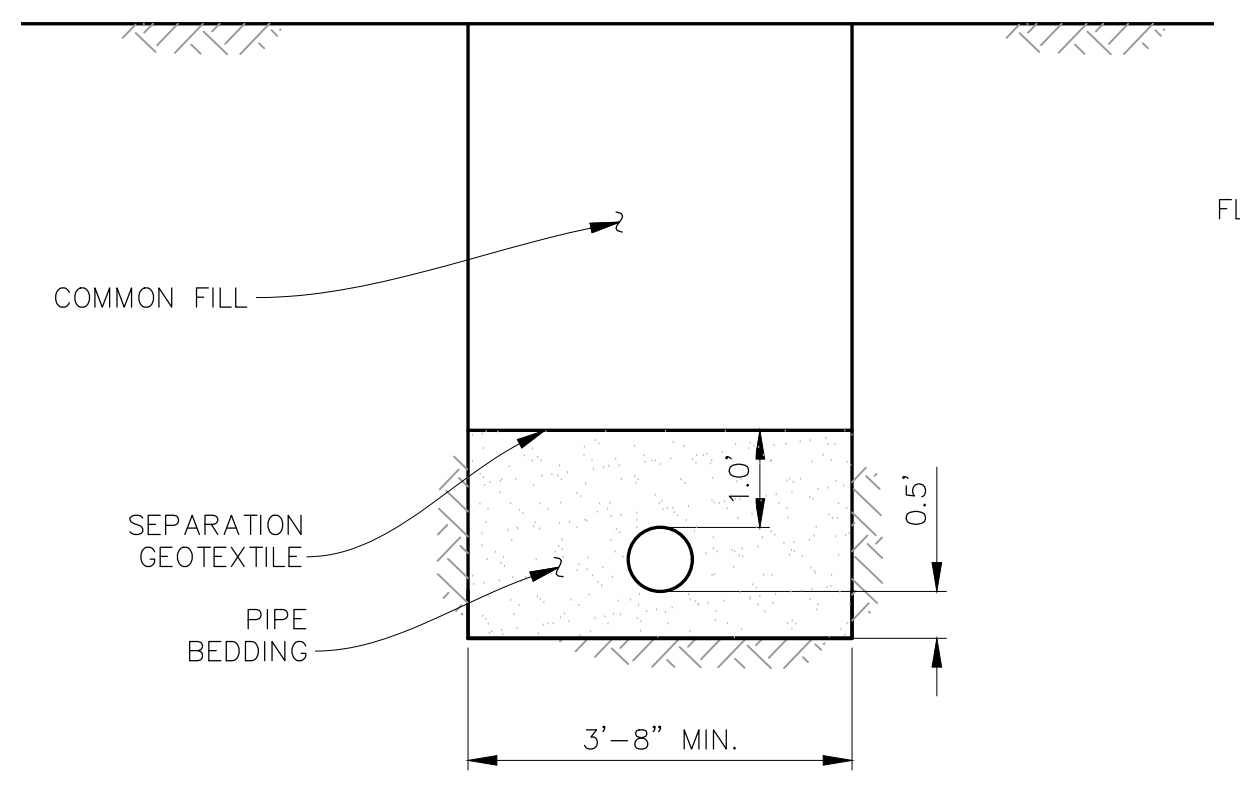
TYPICAL DETAIL
4 FT DIA MANHOLE
SCALE IN FEET



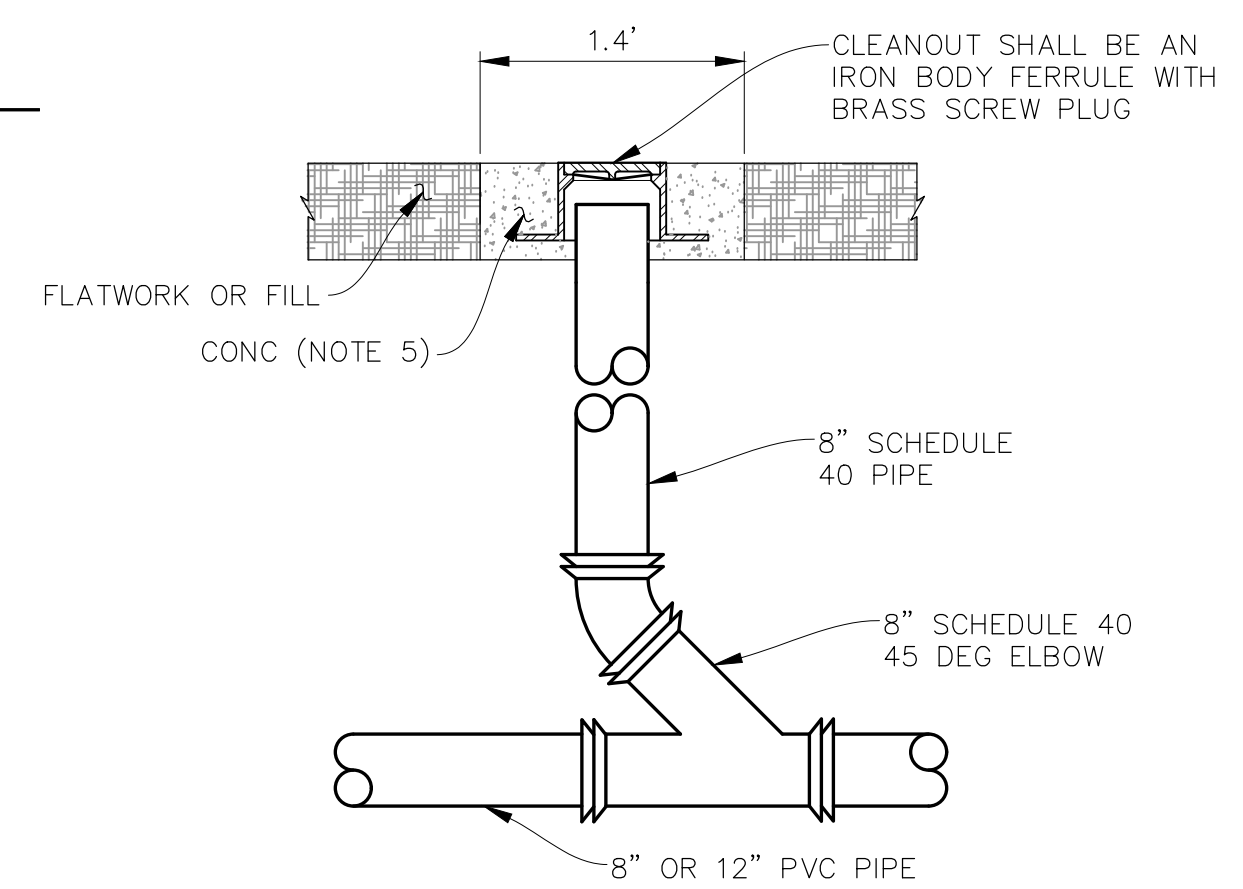
TYPICAL DETAIL
4 FT DIA FLAT TOP MANOLE
SCALE IN FEET



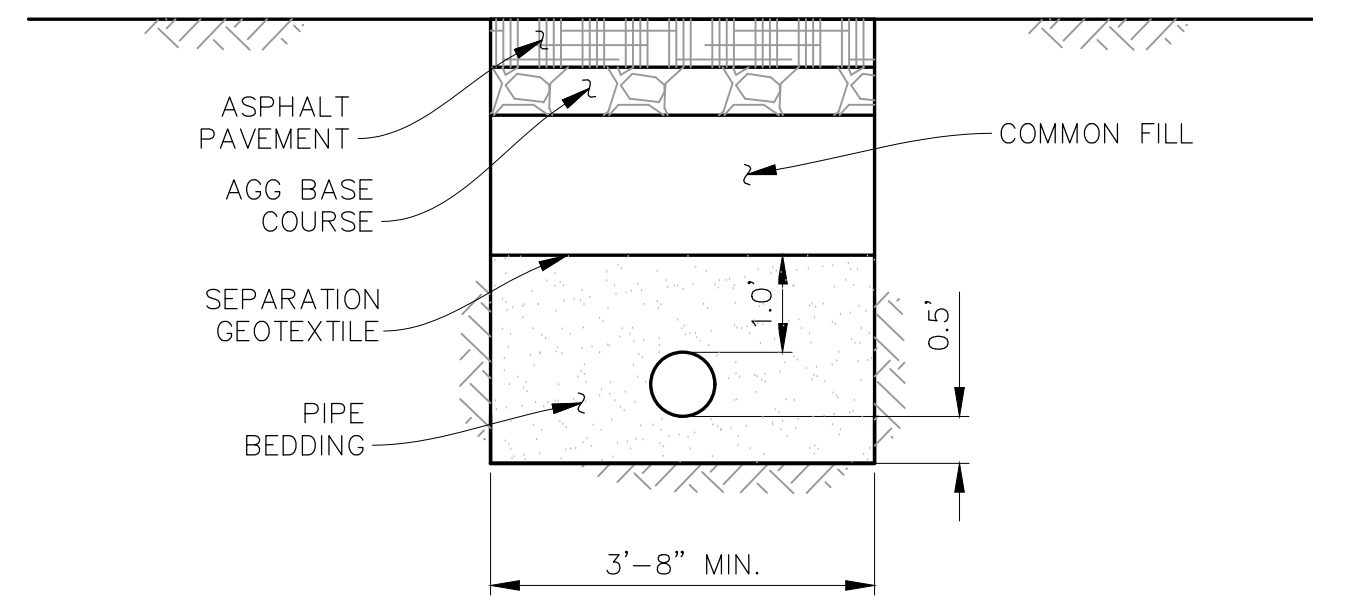
TYPICAL DETAIL
2 FT DIA INLET
SCALE IN FEET



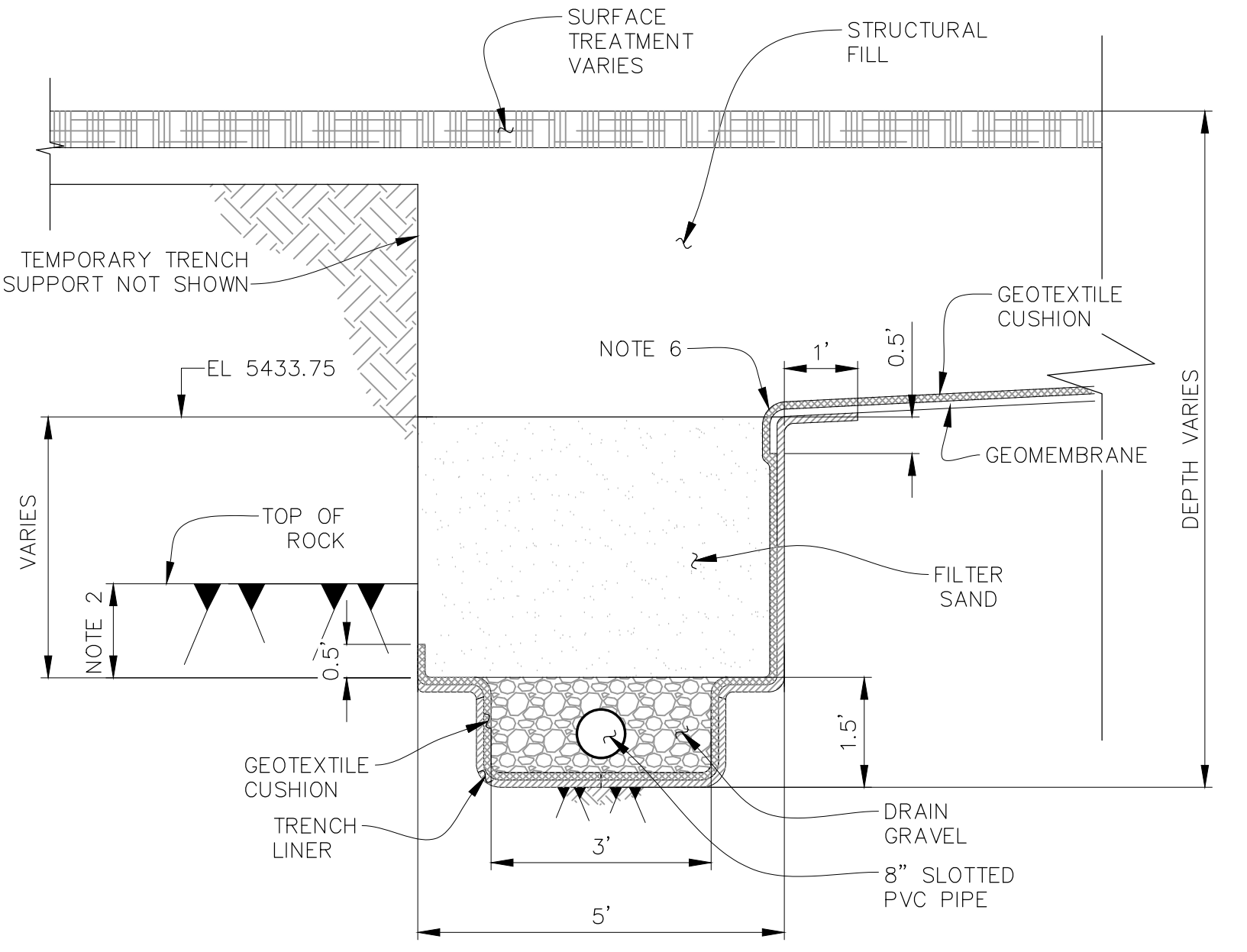
TYPICAL DETAIL
SOLID PIPE INSTALLATION (NOTE 1)
SCALE IN FEET



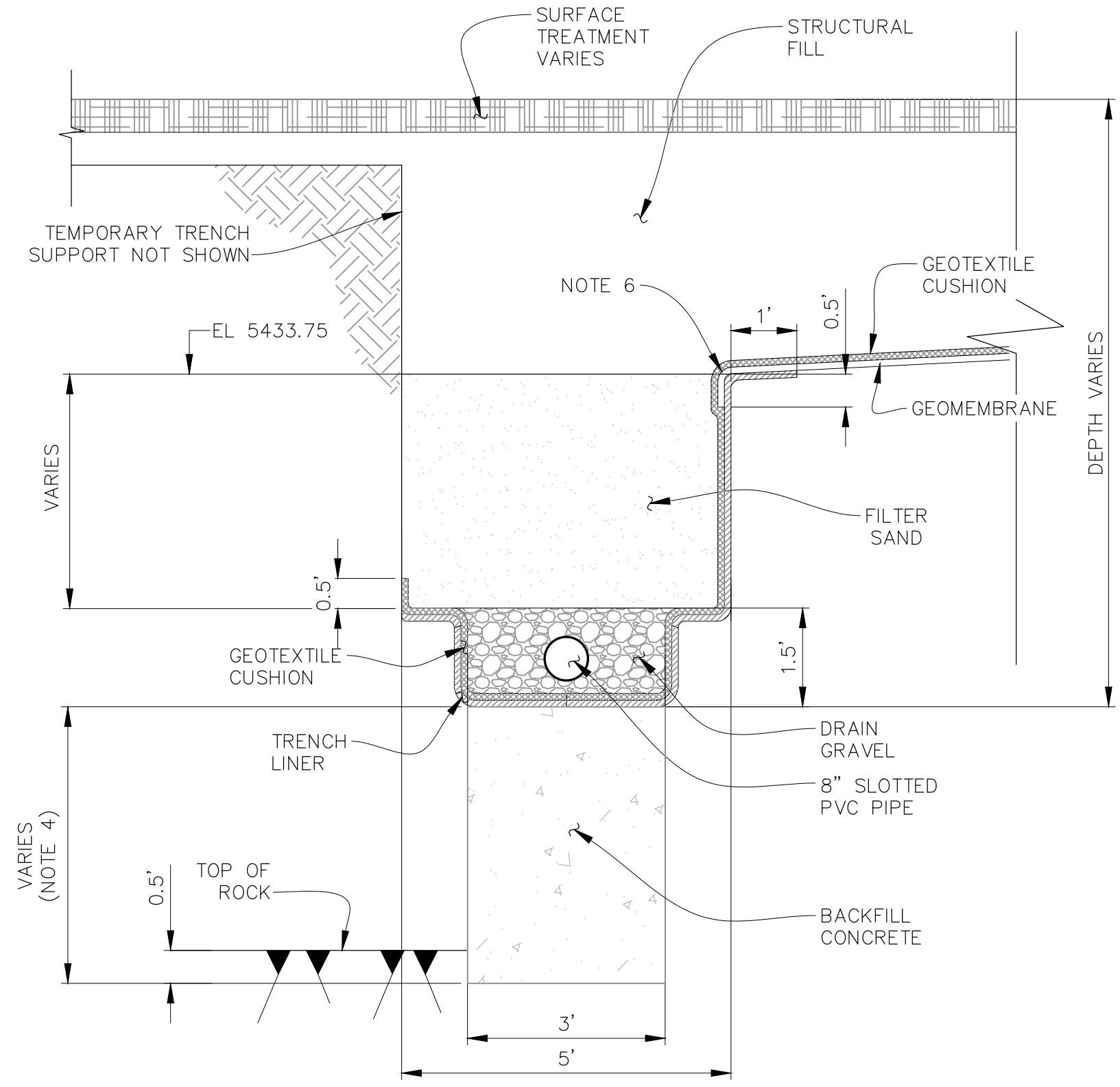
TYPICAL DETAIL
PVC PIPE CLEANOUT
NOT TO SCALE



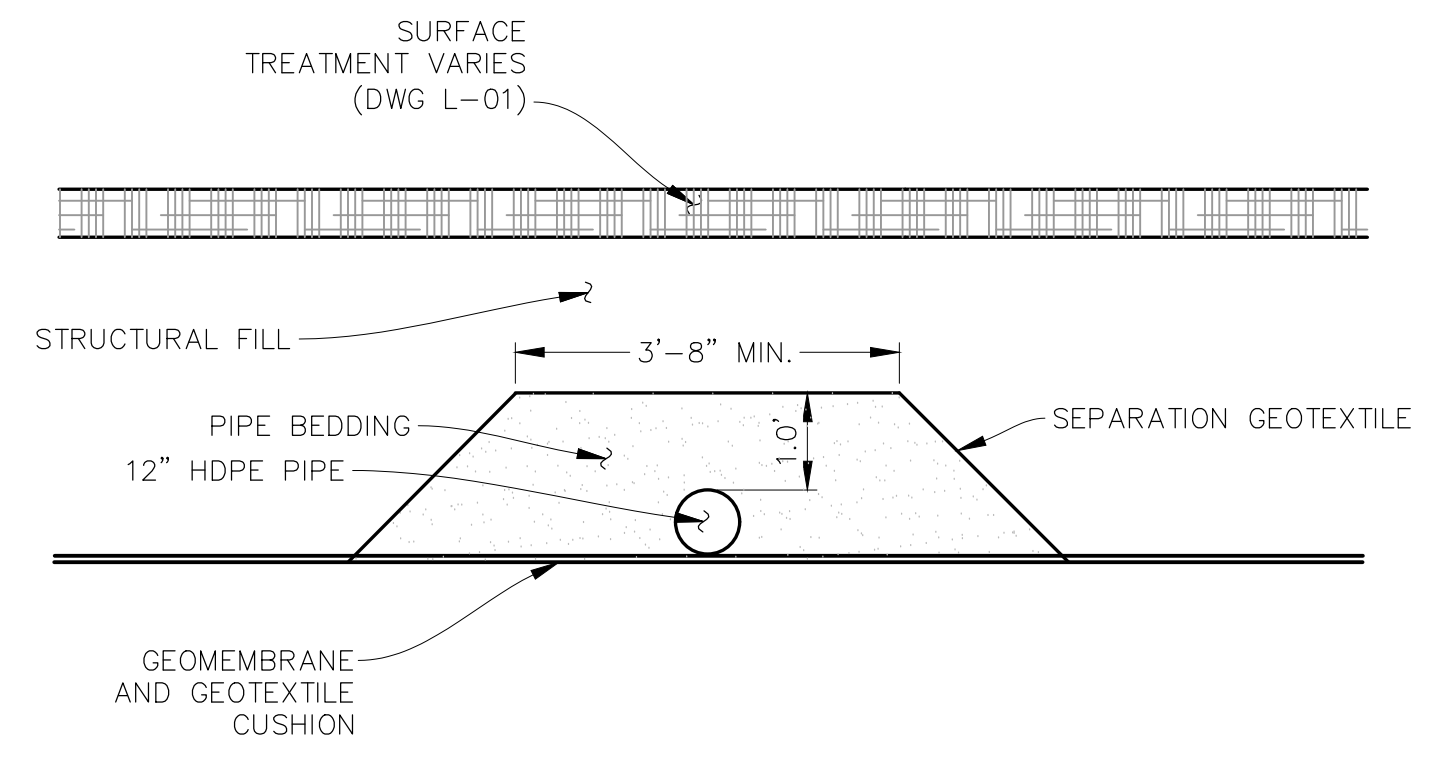
SECTION 2
C-03
SCALE IN FEET



DETAIL
COLLECTION TRENCH
SCALE IN FEET



DETAIL
COLLECTION TRENCH
SCALE IN FEET



SECTION 1
C-03
SCALE IN FEET

- NOTES:
- INSTALLATION SHALL MEET CITY OF THORNTON STANDARDS AND SPECIFICATIONS DRAWING 400-2.
 - DISTANCE VARIES, MINIMUM OF 0.5 FEET ABOVE THE TOP OF THE DRAIN GRAVEL EXCEPT WHERE NOTED.
 - BOTTOM SLABS SHALL BE REINFORCED WITH A MINIMUM OF 0.24 SQ IN/FT IN BOTH DIRECTIONS WITH A MAXIMUM SPACING OF 12".
 - ELEVATION OF SUITABLE ROCK TO BE FIELD VERIFIED. APPROXIMATE DEPTH SHOWN ON DWG C-02.
 - WHERE CLEANOUT IS LOCATED IN COMMON FILL, CONCRETE COLLAR IS NOT REQUIRED.
 - THE GEOMEMBRANE SHOULD EXTEND ABOVE THE TRENCH LINER AND INTO THE TRENCH BASED ON THE DIMENSIONS SHOWN. DO NOT FUSE GEOMEMBRANE AND TRENCH LINER.

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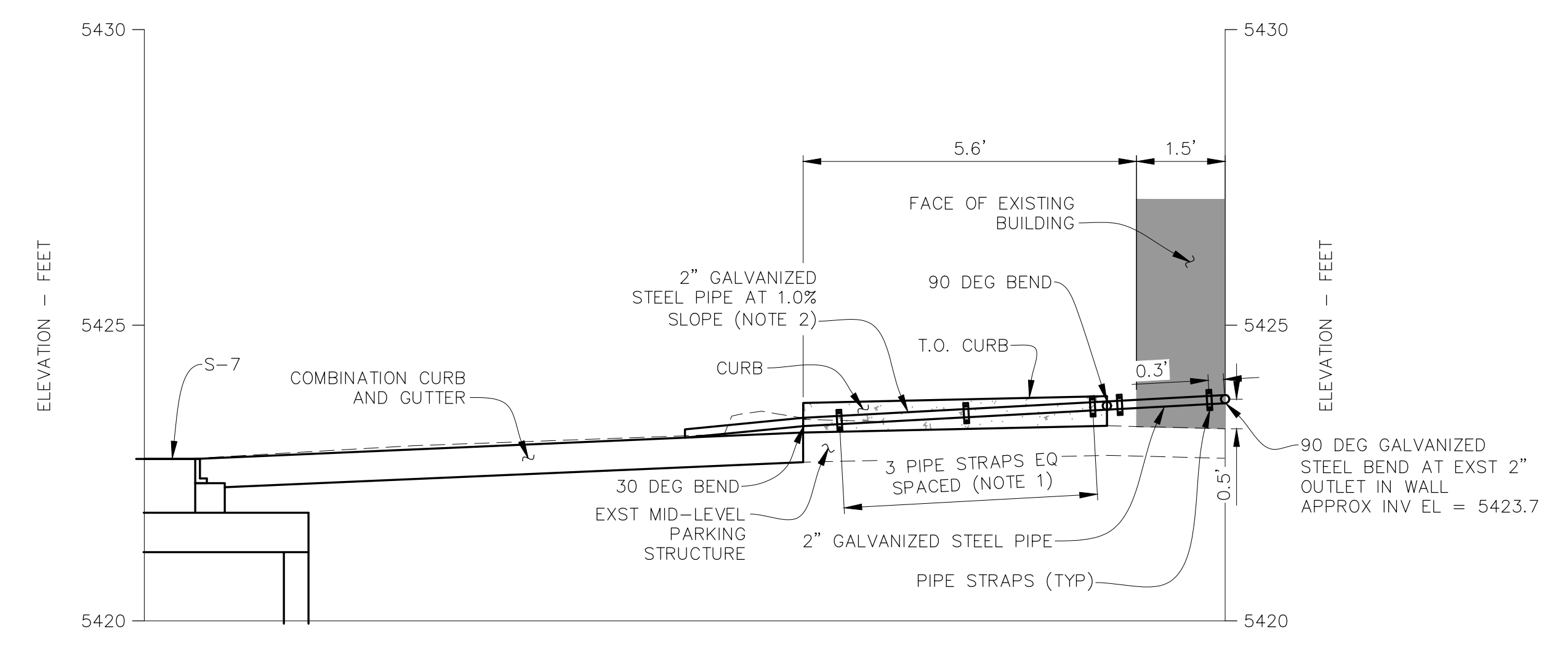
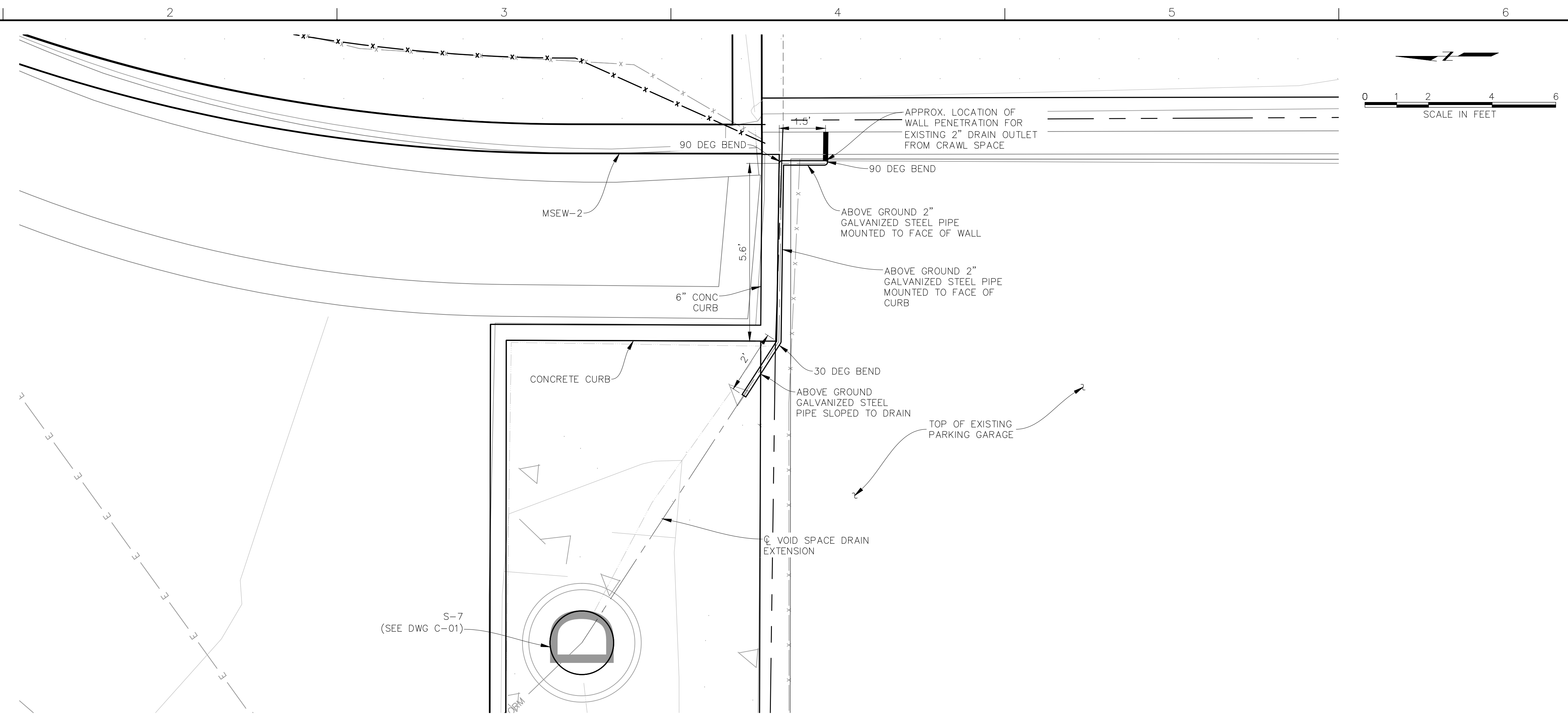
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THORNTON JUSTICE CENTER
PHASE III

SUBSURFACE DRAINAGE
AND STORM SEWER
DETAILS

DWG. NO.
C-04
SHEET NO.
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- NOTES:
- PIPE STRAPS SHALL BE STAINLESS STEEL AND MOUNTED TO CONCRETE WITH $\frac{3}{8}$ " BOLTS. LOCATION OF PIPE STRAP MOUNTING SHALL BE FIELD FIT TO MAINTAIN A MAXIMUM SPACING OF 4 FEET BETWEEN STRAPS AND A MINIMUM CLEARANCE OF 2.5" TO THE EDGE OF THE CONCRETE.
 - EXST INVERT IS ESTIMATED AND SLOPE WILL VARY BASED ON FIELD CONDITIONS. MINIMUM SLOPE IS 0.5%.

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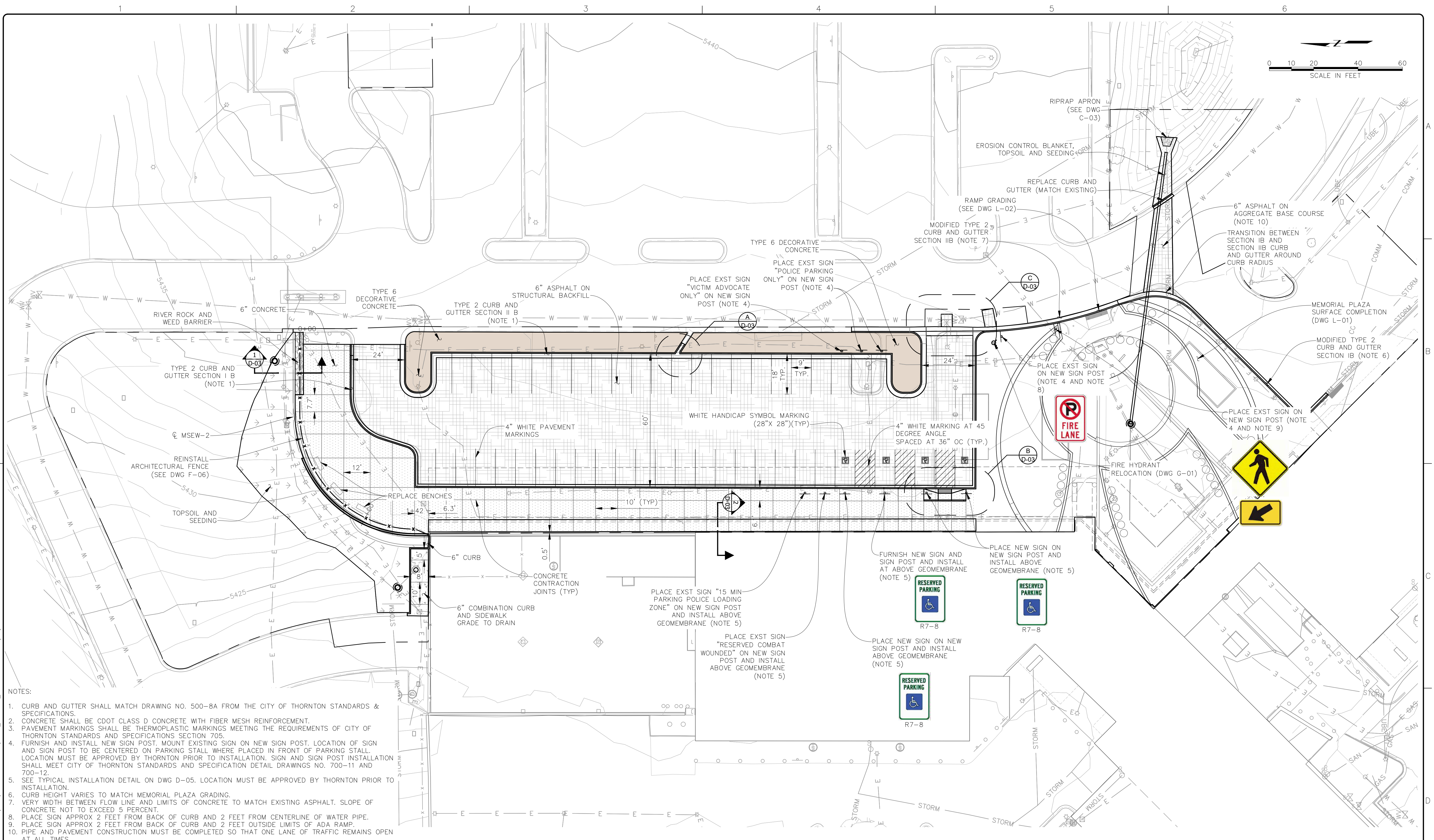
THORNTON JUSTICE CENTER
PHASE III

VOID SPACE DRAIN
MODIFICATIONS

RJH PROJECT 21129

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SHEET NO.
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P: \21129 - JUSTICE CENTER PHASE III\CAD\DESIGN DRAWINGS\21129_DRAINAGE_FROM_VOID.DWG 1/15/2024



- NOTES:
- CURB AND GUTTER SHALL MATCH DRAWING NO. 500-8A FROM THE CITY OF THORNTON STANDARDS & SPECIFICATIONS.
 - CONCRETE SHALL BE CDOT CLASS D CONCRETE WITH FIBER MESH REINFORCEMENT.
 - PAVEMENT MARKINGS SHALL BE THERMOPLASTIC MARKINGS MEETING THE REQUIREMENTS OF CITY OF THORNTON STANDARDS AND SPECIFICATIONS SECTION 705.
 - FURNISH AND INSTALL NEW SIGN POST. MOUNT EXISTING SIGN ON NEW SIGN POST. LOCATION OF SIGN AND SIGN POST TO BE CENTERED ON PARKING STALL WHERE PLACED IN FRONT OF PARKING STALL. LOCATION MUST BE APPROVED BY THORNTON PRIOR TO INSTALLATION. SIGN AND SIGN POST INSTALLATION SHALL MEET CITY OF THORNTON STANDARDS AND SPECIFICATION DETAIL DRAWINGS NO. 700-11 AND 700-12.
 - SEE TYPICAL INSTALLATION DETAIL ON DWG D-05. LOCATION MUST BE APPROVED BY THORNTON PRIOR TO INSTALLATION.
 - CURB HEIGHT VARIES TO MATCH MEMORIAL PLAZA GRADING.
 - VERY WIDTH BETWEEN FLOW LINE AND LIMITS OF CONCRETE TO MATCH EXISTING ASPHALT. SLOPE OF CONCRETE NOT TO EXCEED 5 PERCENT.
 - PLACE SIGN APPROX 2 FEET FROM BACK OF CURB AND 2 FEET FROM CENTERLINE OF WATER PIPE.
 - PLACE SIGN APPROX 2 FEET FROM BACK OF CURB AND 2 FEET OUTSIDE LIMITS OF ADA RAMP.
 - PIPE AND PAVEMENT CONSTRUCTION MUST BE COMPLETED SO THAT ONE LANE OF TRAFFIC REMAINS OPEN AT ALL TIMES.

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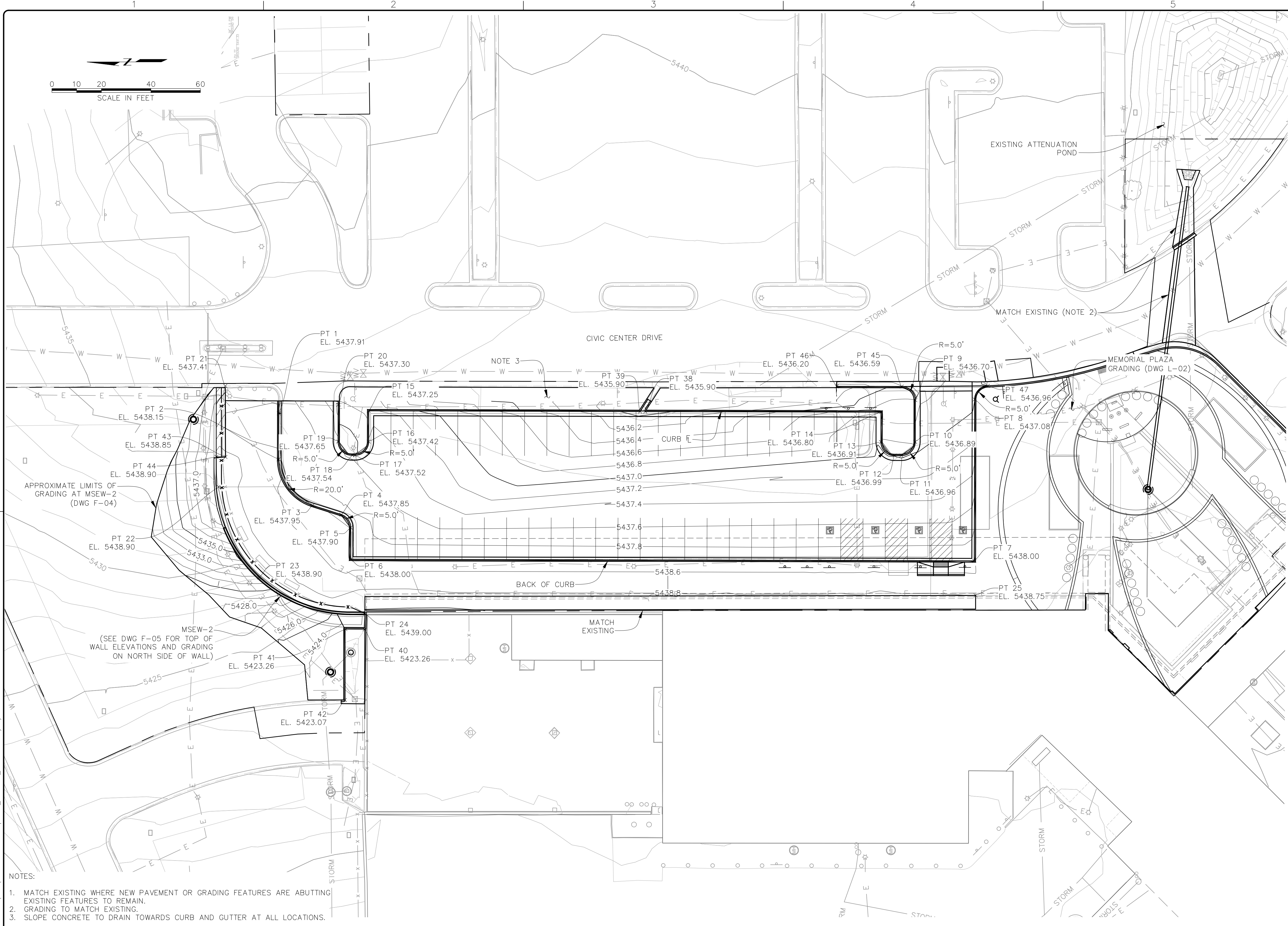
City of Thornton

THORNTON JUSTICE CENTER
PHASE III

UPPER PARKING AREA
SURFACE COMPLETION

DWG. NO.
D-01
SHEET NO.
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RJH PROJECT 21129



POINT TABLE				
POINT	ELEVATION	NORTHING	EASTING	DESCRIPTION
1	5437.91	1196446.66	3145248.29	Curb FL*
2	5438.15	1196446.69	3145229.70	Curb FL
3	5437.95	1196433.08	3145211.06	Curb FL
4	5437.85	1196421.44	3145207.36	Curb FL
5	5437.90	1196417.61	3145202.10	Curb FL
6	5438.00	1196417.64	3145189.33	Curb FL
7	5438.00	1196165.65	3145188.65	Curb FL
8	5437.08	1196165.48	3145253.90	Curb FL
9	5436.70	1196189.48	3145253.60	Curb FL
10	5436.89	1196189.53	3145236.71	Curb FL
11	5436.96	1196195.09	3145231.23	Curb FL
12	5436.99	1196197.82	3145231.23	Curb FL
13	5436.91	1196203.36	3145236.74	Curb FL
14	5436.80	1196203.32	3145248.75	Curb FL
15	5437.25	1196410.32	3145249.31	Curb FL
16	5437.42	1196410.34	3145236.85	Curb FL
17	5437.52	1196415.83	3145231.35	Curb FL
18	5437.54	1196416.94	3145231.35	Curb FL
19	5437.65	1196422.69	3145236.87	Curb FL
20	5437.30	1196422.64	3145251.74	Curb FL*
21	5437.41	1196468.27	3145259.31	Edge of Sidewalk*
22	5438.90	1196471.02	3145218.54	Edge of Sidewalk
23	5438.90	1196454.65	3145181.89	Edge of Sidewalk
24	5439.00	1196411.83	3145167.35	Edge of Sidewalk**
25	5438.75	1196165.12	3145174.70	Edge of Sidewalk
38	5435.90	1196298.59	3145249.01	Curb FL
39	5435.90	1196300.66	3145249.02	Curb FL
40	5423.26	1196412.05	3145160.97	Curb FL*
41	5423.26	1196419.73	3145161.08	Curb FL
42	5423.07	1196419.92	3145132.47	Curb FL*
43	5438.85	1196468.19	3145230.65	Edge of Sidewalk
44	5438.90	1196471.89	3145230.70	Edge of Sidewalk
45	5436.59	1196194.98	3145259.09	Curb FL
46	5436.20	1196221.24	3145259.17	Curb FL*
47	5436.96	1196160.15	3145259.38	Curb FL*

* MATCH EXISTING
 ** MATCH EXISTING ELEVATION AGAINST BRICK VENEER

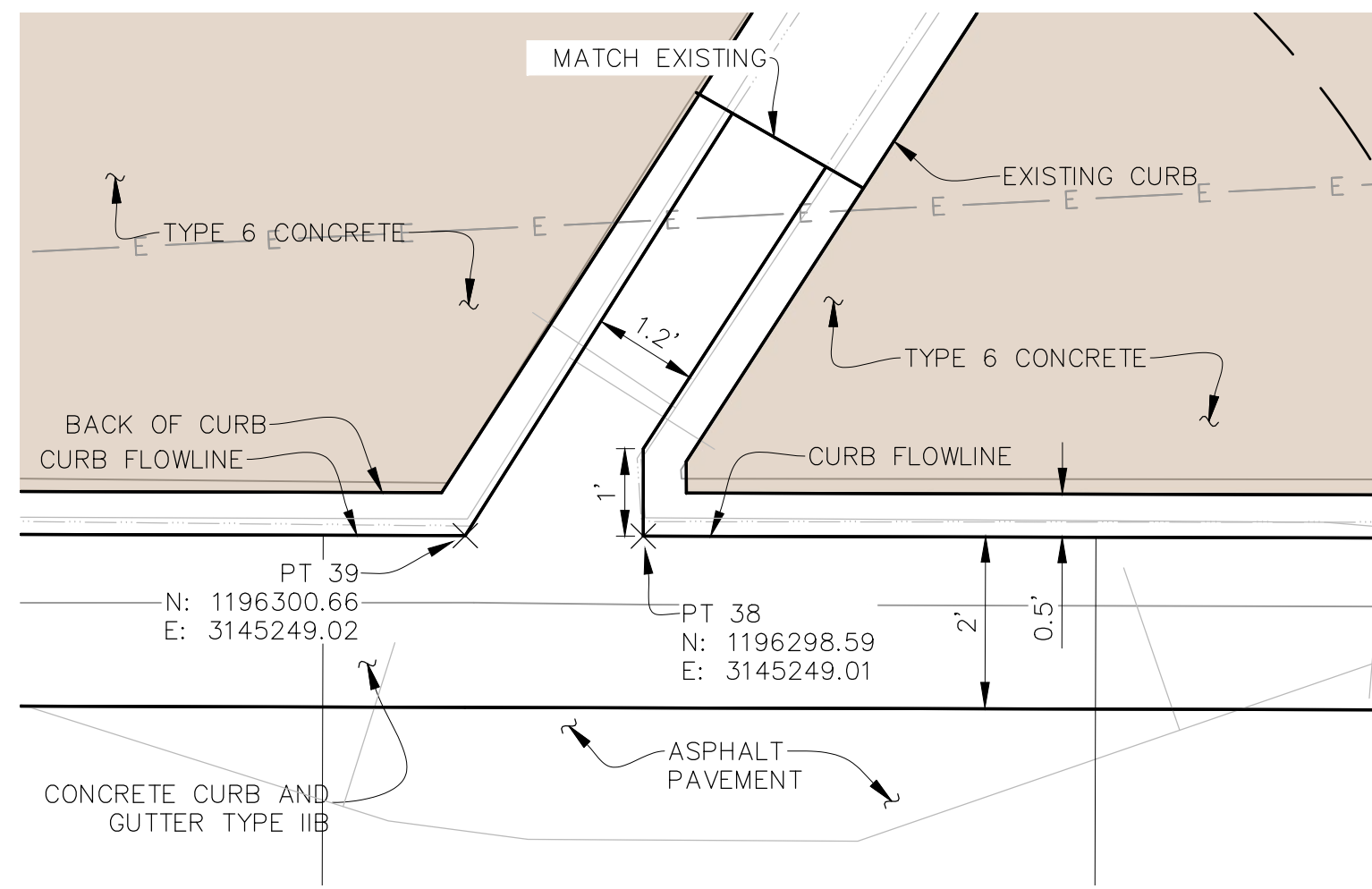
- NOTES:
1. MATCH EXISTING WHERE NEW PAVEMENT OR GRADING FEATURES ARE ABUTTING EXISTING FEATURES TO REMAIN.
 2. GRADING TO MATCH EXISTING.
 3. SLOPE CONCRETE TO DRAIN TOWARDS CURB AND GUTTER AT ALL LOCATIONS.

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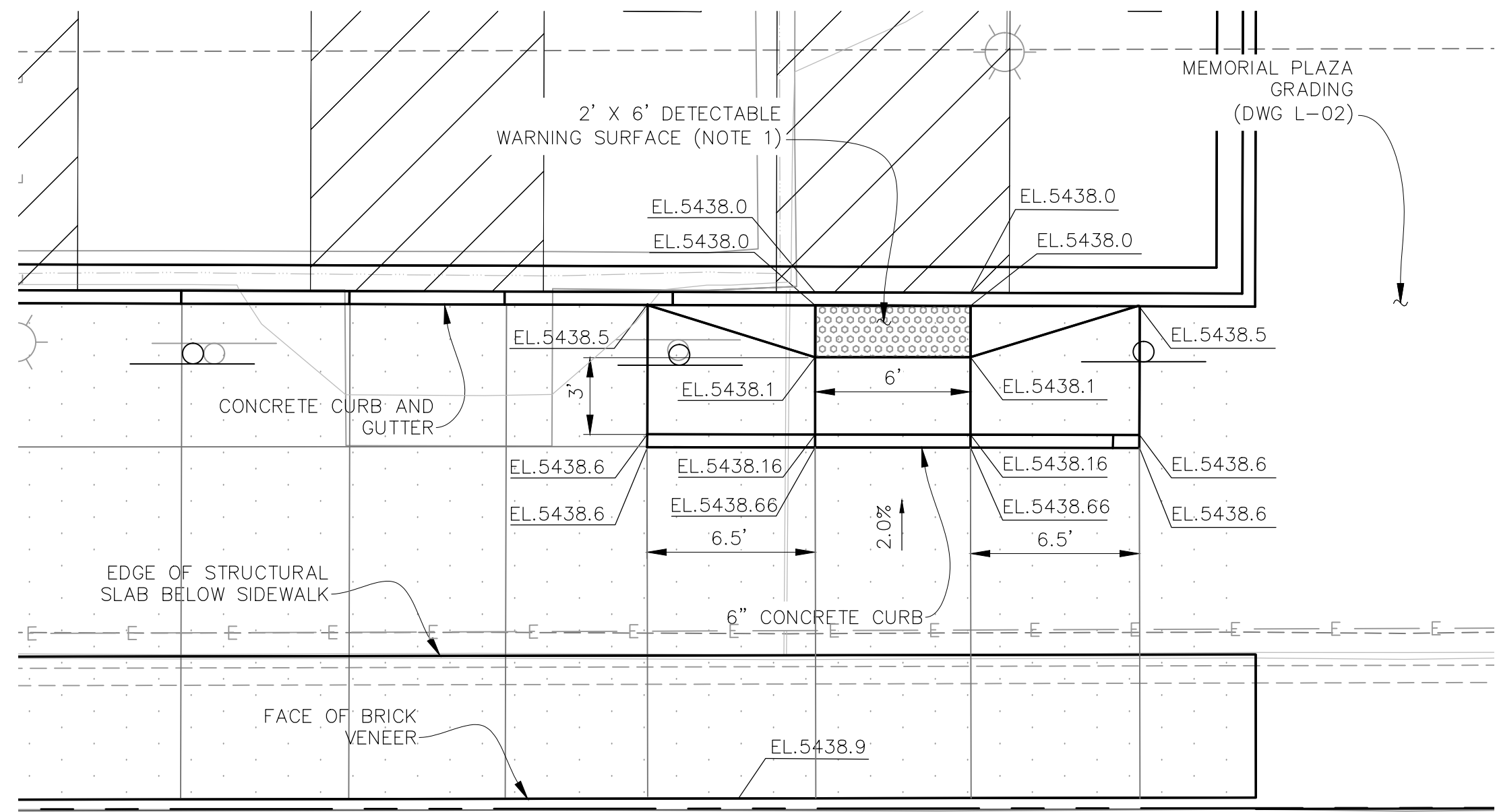
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			DES	DRN	CHK	APP

			THORNTON JUSTICE CENTER PHASE III	UPPER PARKING AREA GRADING PLAN	DWG. NO. D-02
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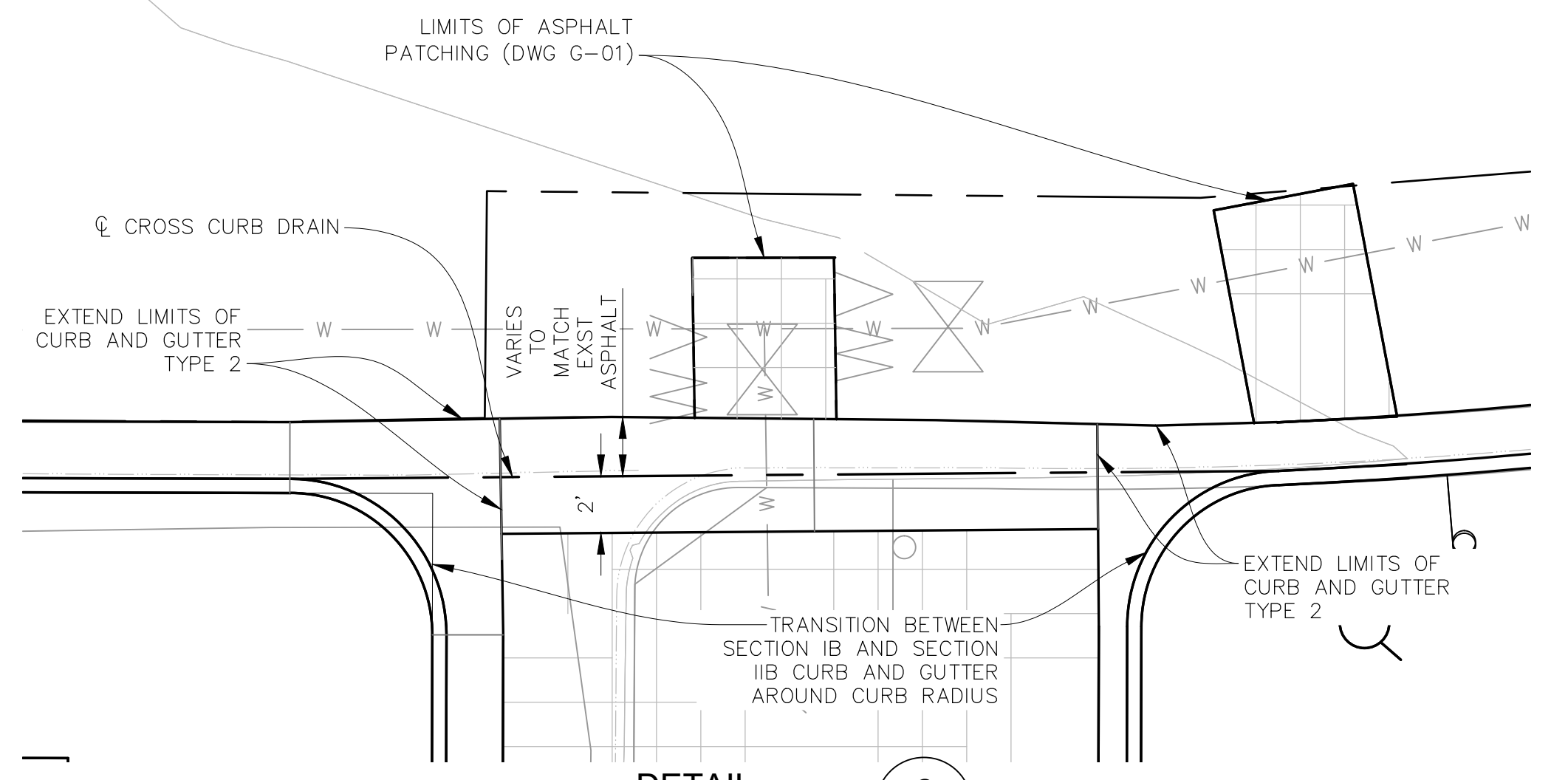
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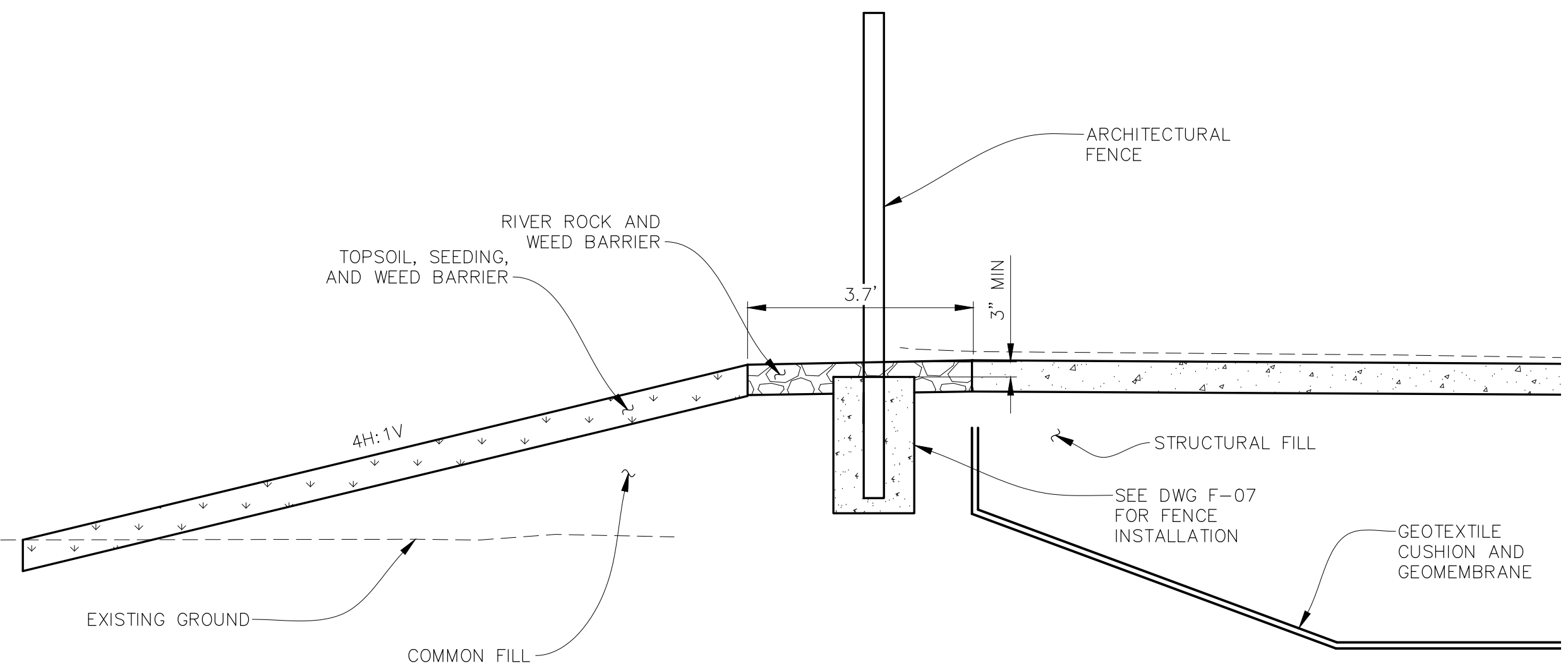
DETAIL A
D-01
SCALE IN FEET



DETAIL B
D-01
SCALE IN FEET

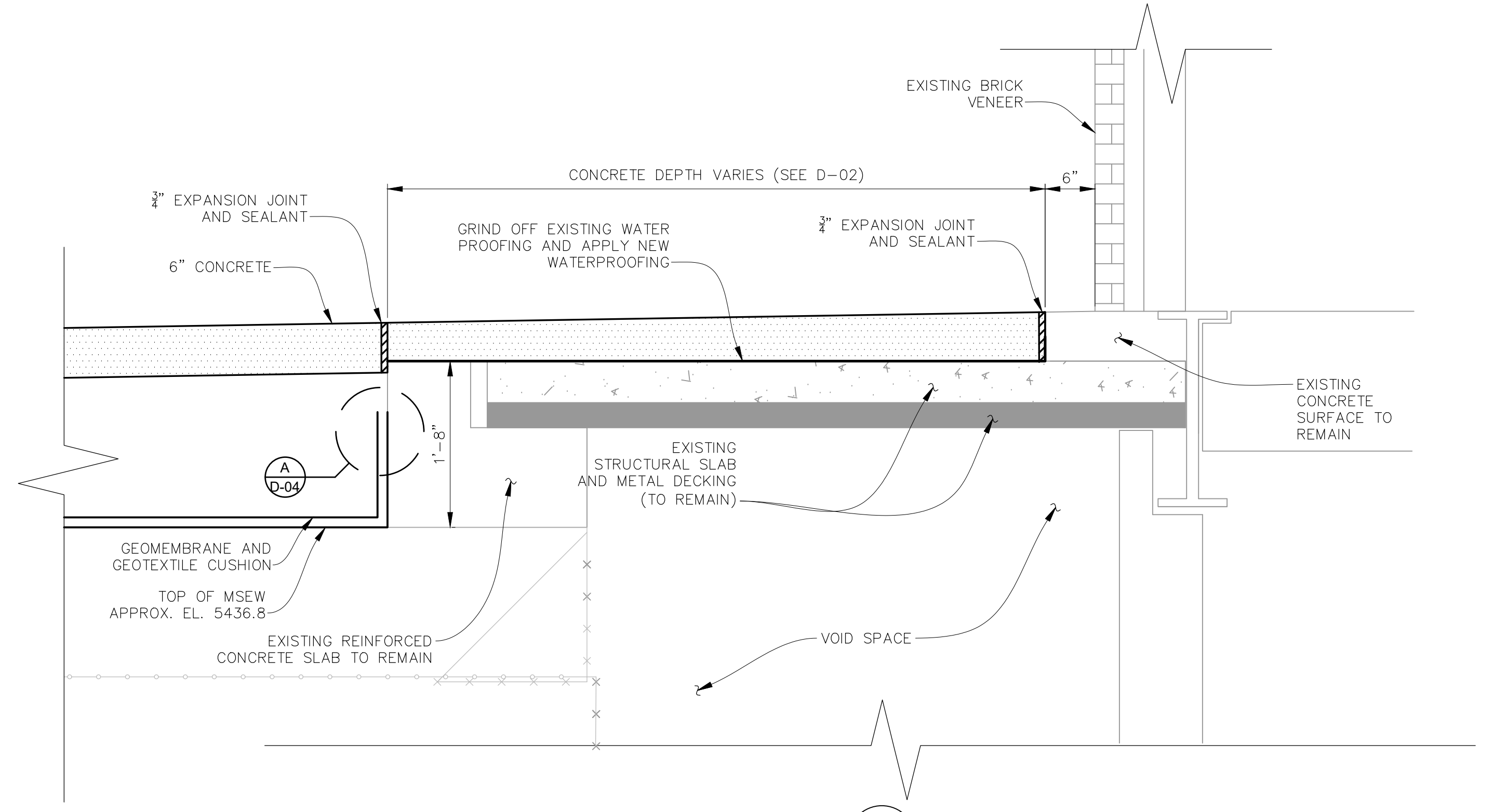


DETAIL C
D-01
SCALE IN FEET



SECTION 1
D-01
SCALE IN FEET

NOTES:
1. DETECTABLE WARNING FIELD SHALL BE CAST-IN-PLACE RED EAST JORDAN IRON WORKS OR APPROVED EQUAL.



SECTION 2
D-01
SCALE IN FEET

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			DES	DRN	CHK	APP



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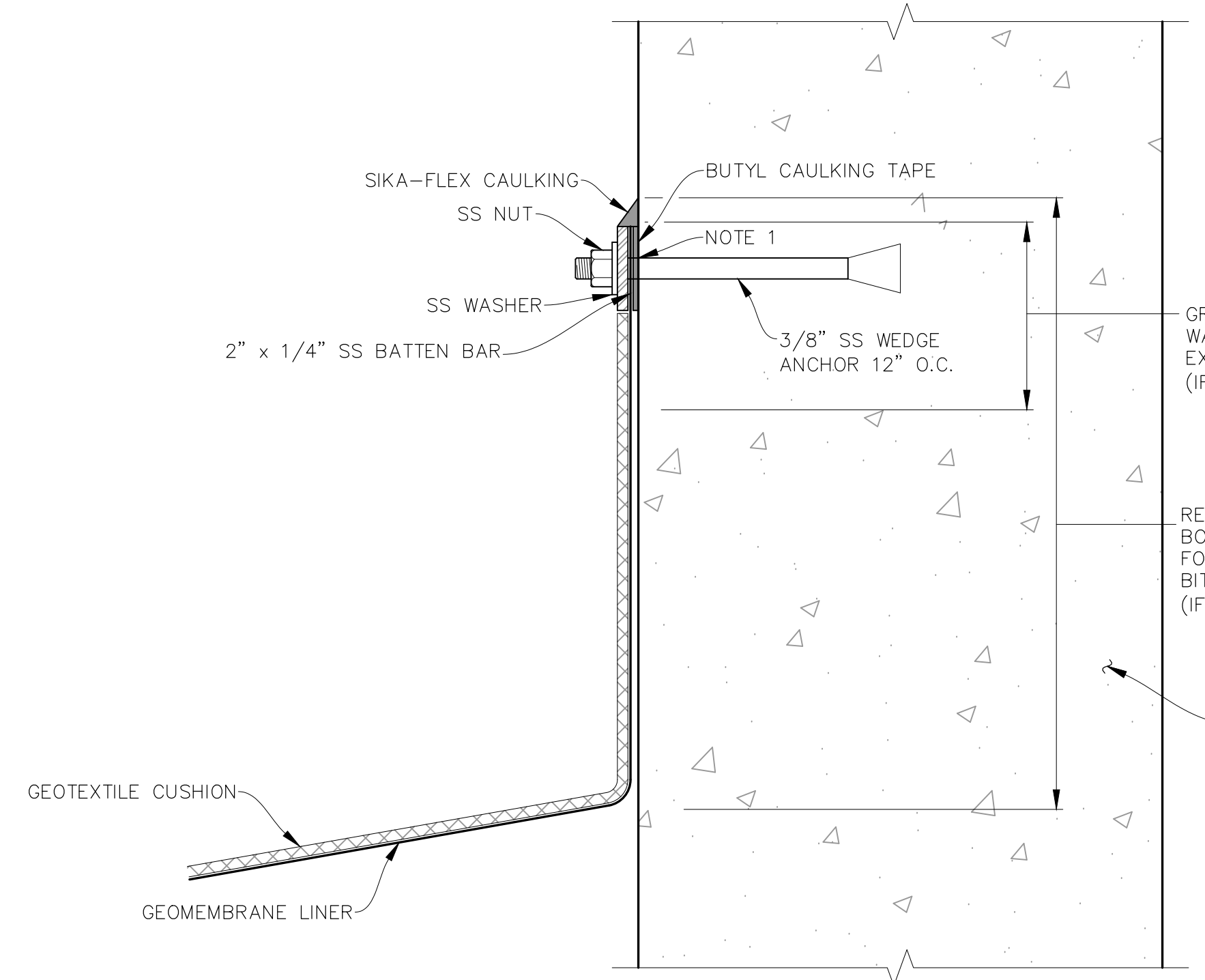
SURFACE COMPLETION SECTIONS AND DETAILS

DWG. NO. **D-03**
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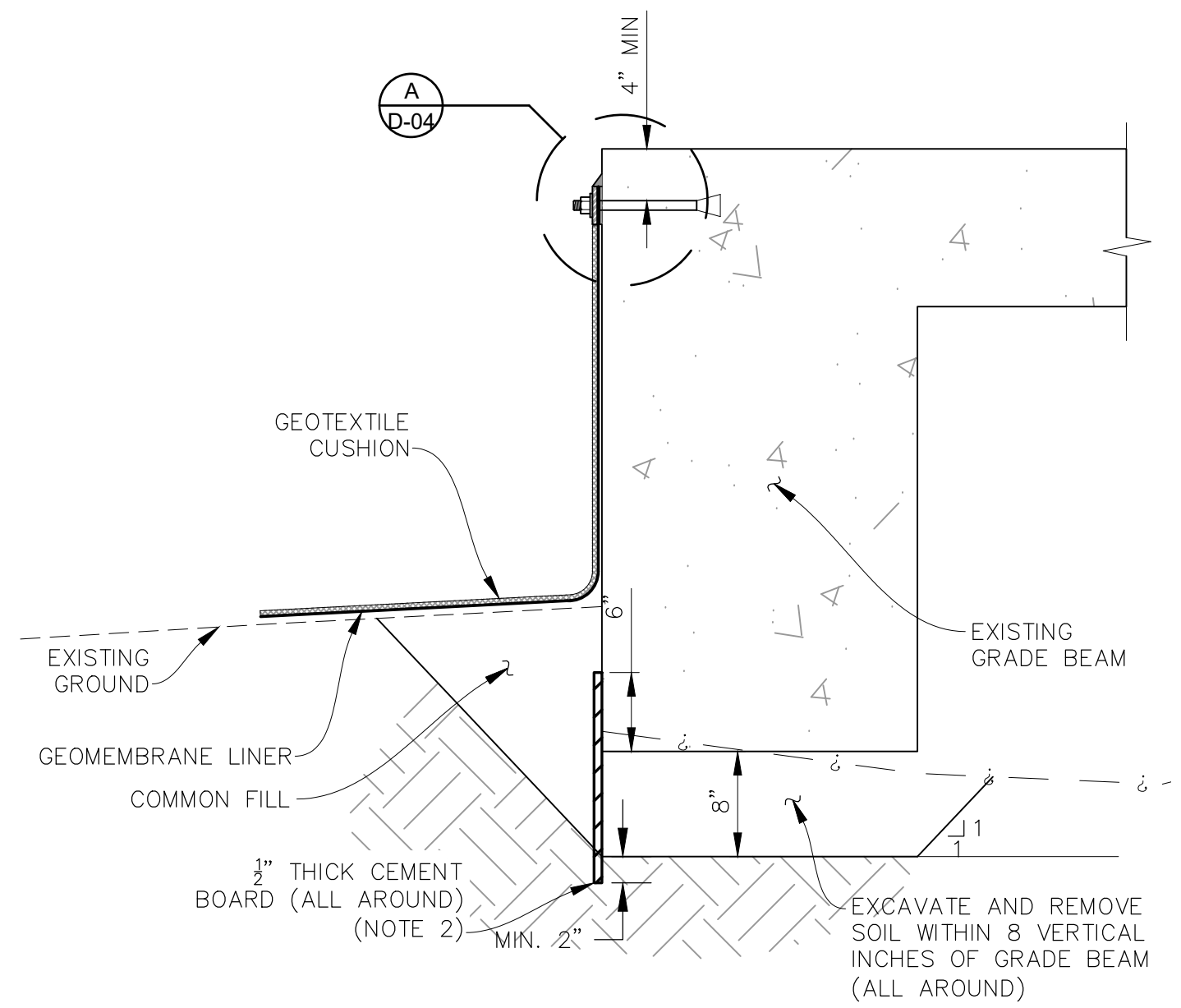
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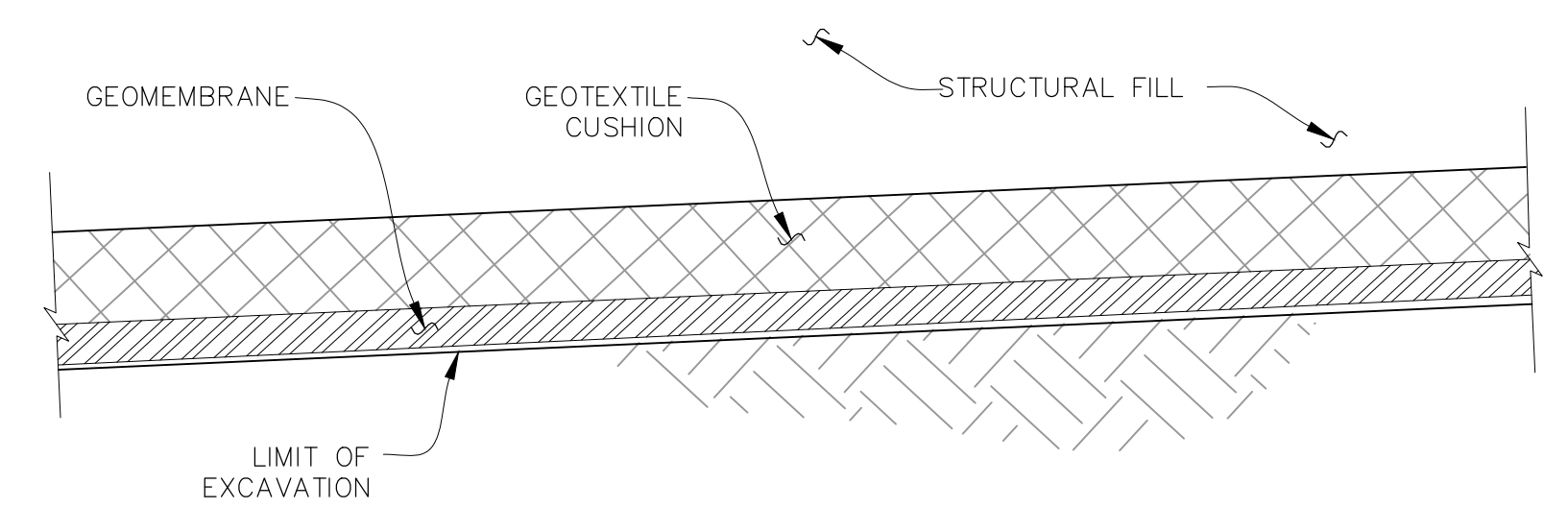
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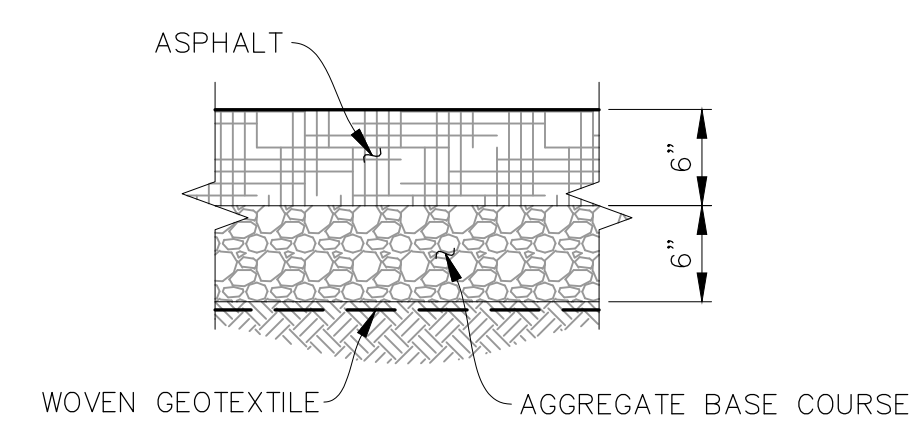
DETAIL
NOT TO SCALE
A A
B-02 B-03



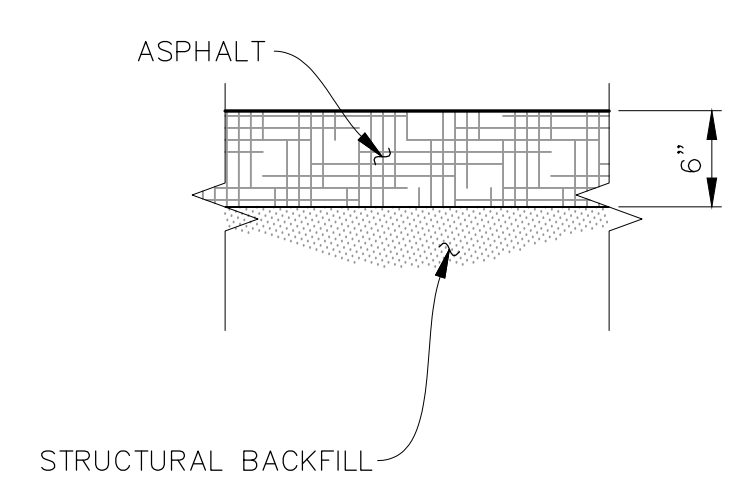
DETAIL
NOT TO SCALE
B
B-02



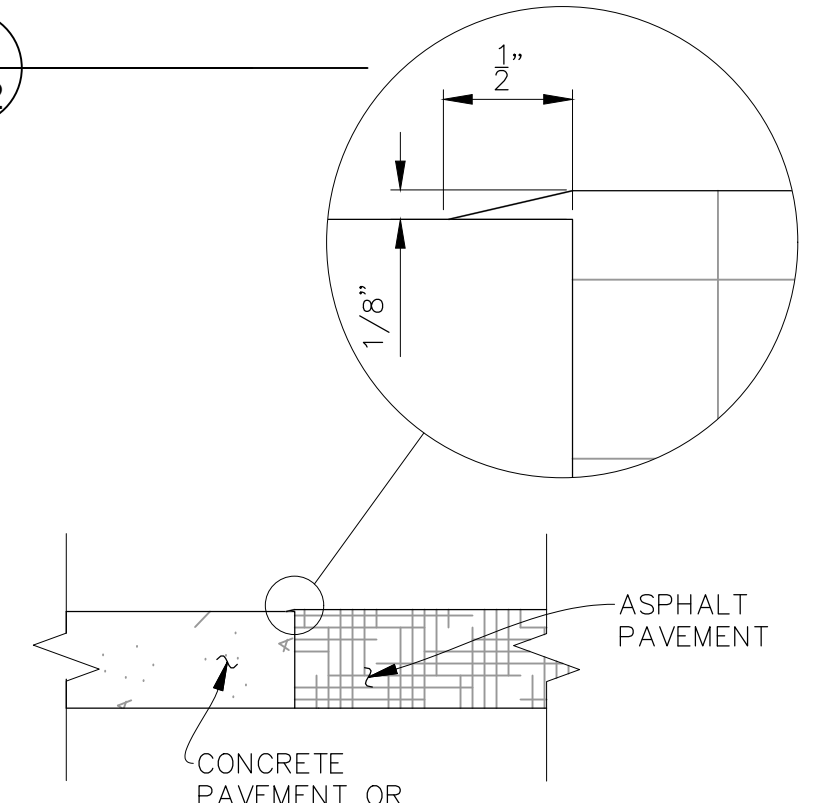
DETAIL
NOT TO SCALE
C C
B-02 B-03



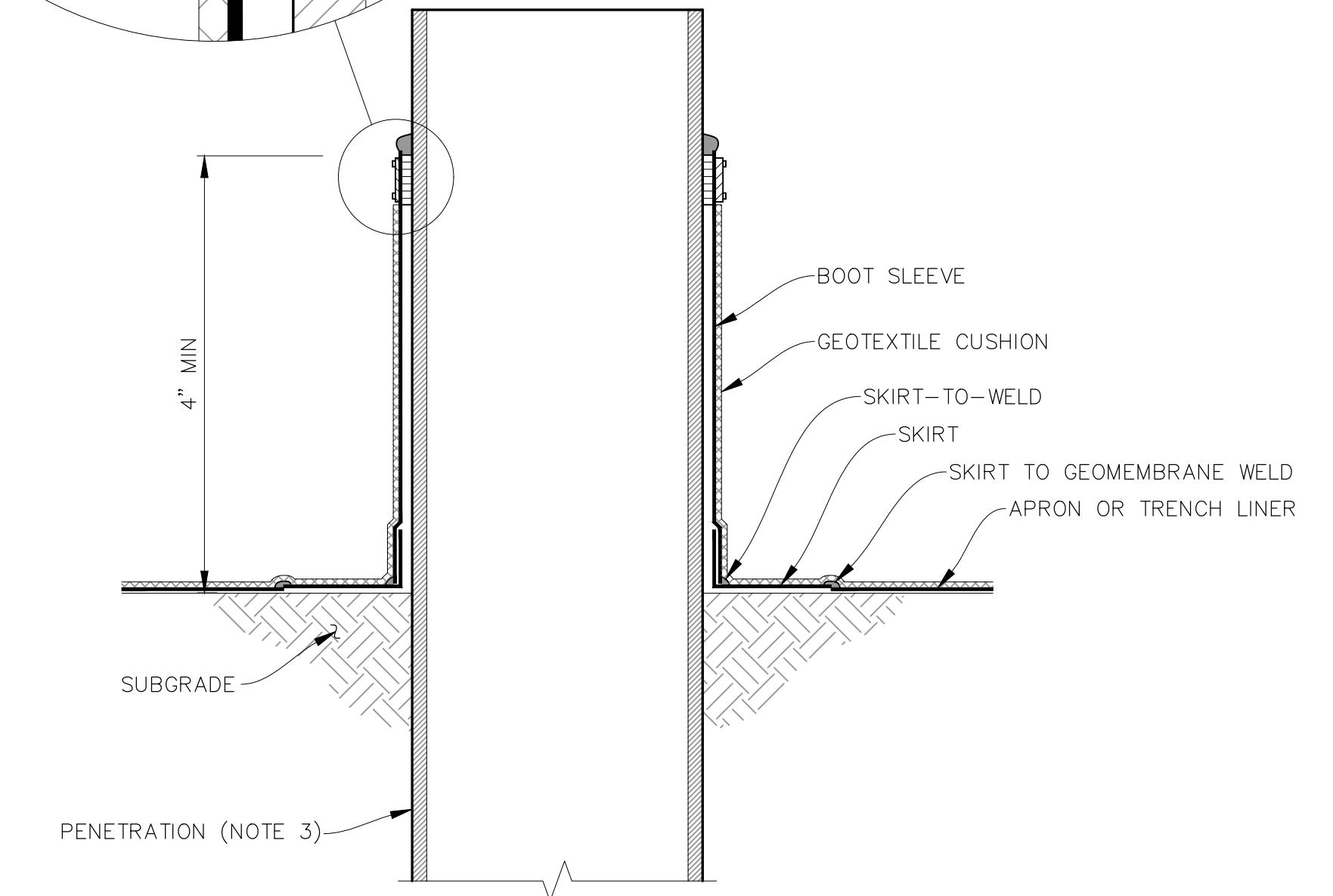
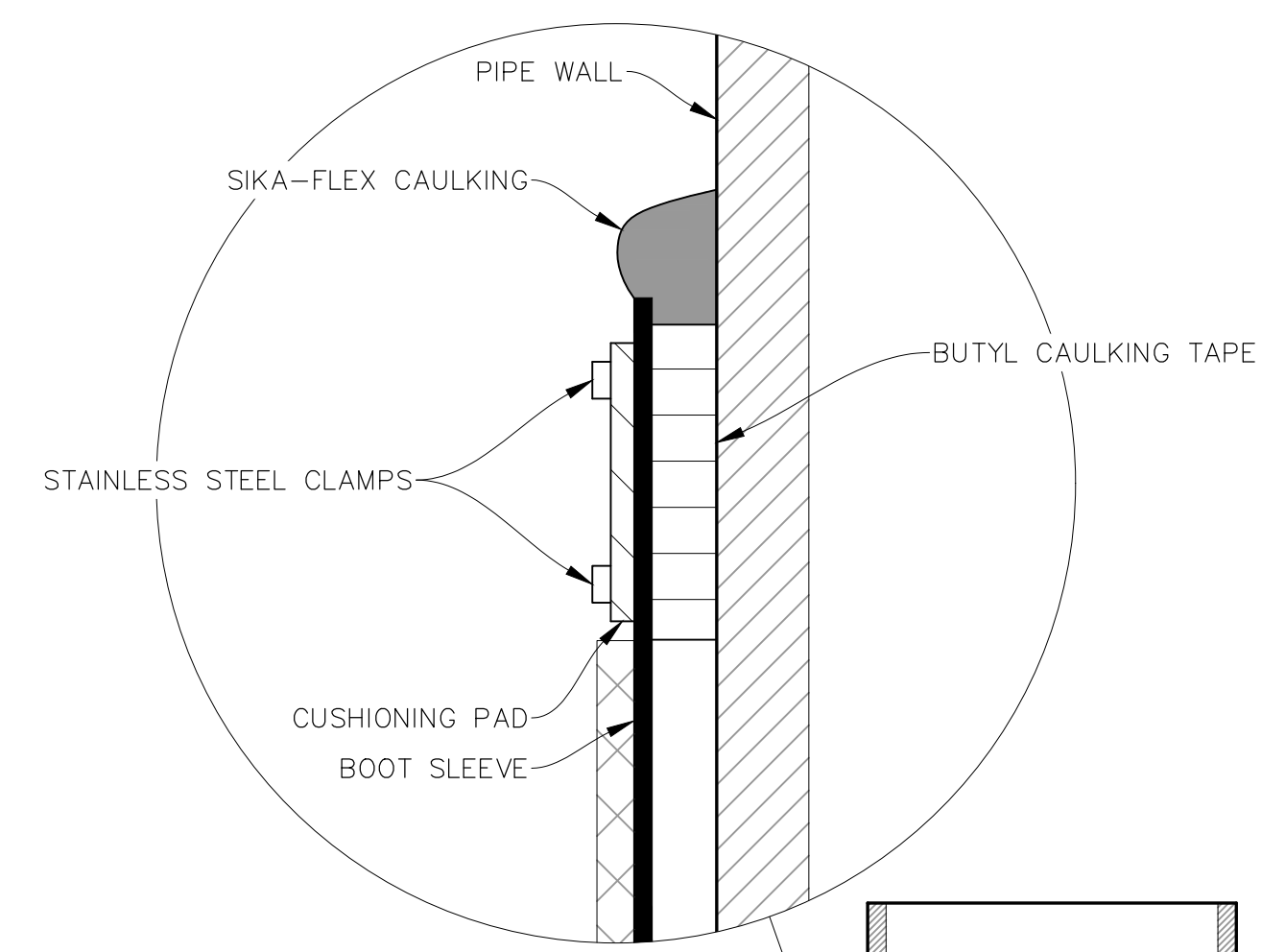
TYPICAL DETAIL
6\"/>



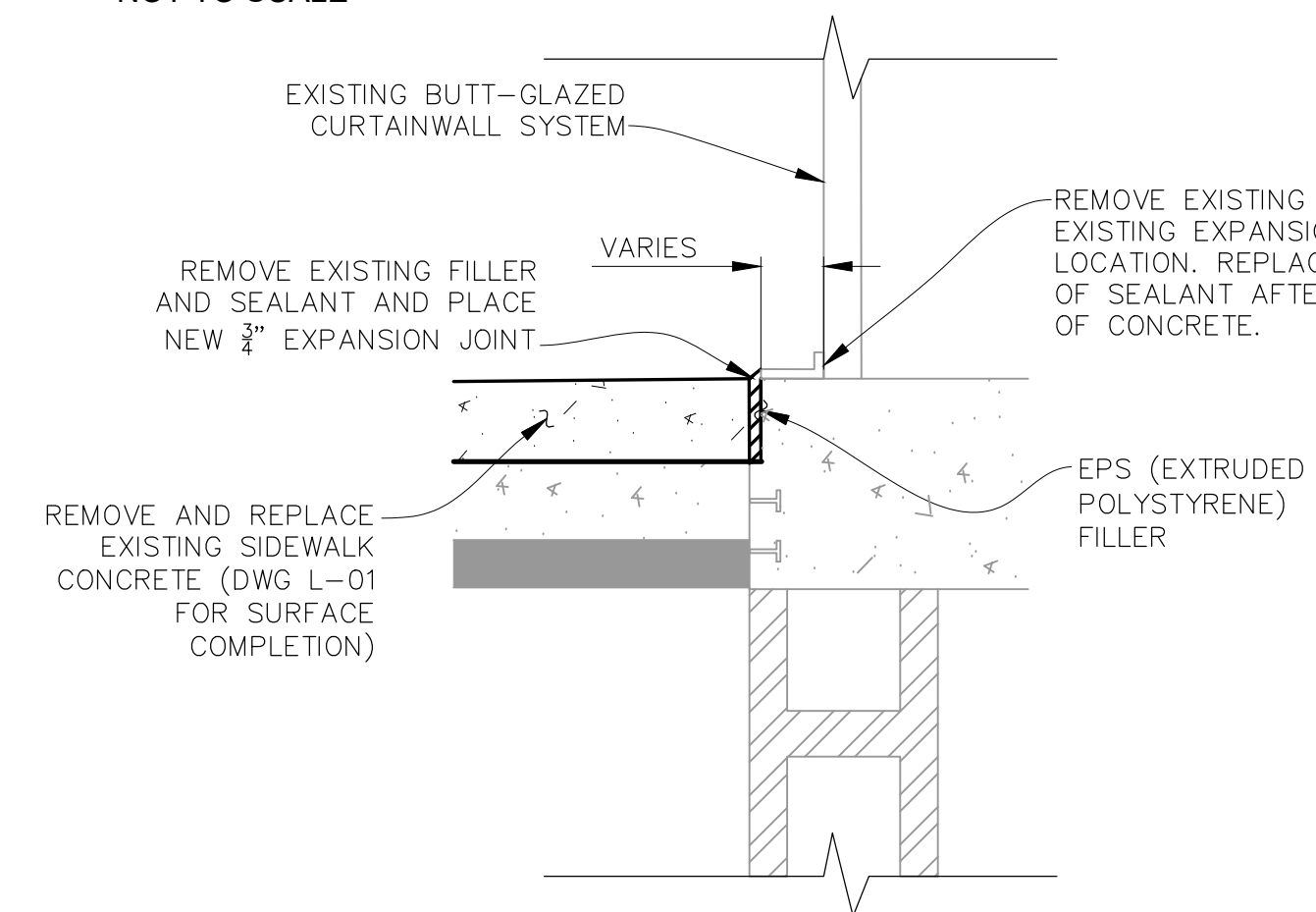
TYPICAL DETAIL
6\"/>



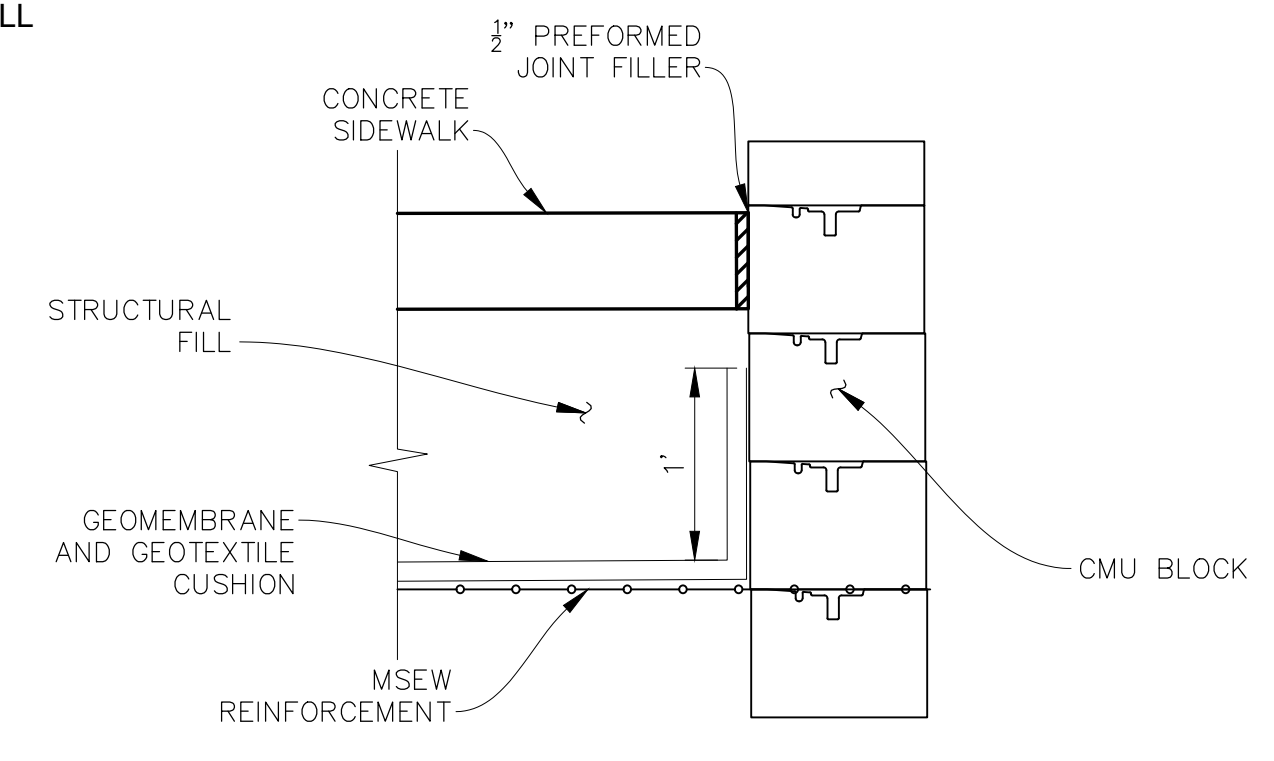
TYPICAL DETAIL
CONCRETE PAVEMENT TO ASPHALT PAVEMENT CONTACT
NOT TO SCALE



TYPICAL DETAIL
GEOMEMBRANE PENETRATION LOCATION
NOT TO SCALE



DETAIL
NOT TO SCALE
D
A-12



DETAIL
NOT TO SCALE
E
B-03

- NOTES:
- EXISTING CONCRETE SURFACE IS ROUGH. GRIND CONCRETE SURFACE SMOOTH PRIOR TO ATTACHING MEMBRANE. GRIND TO AT LEAST 1\"/>
 - ATTACH CEMENT BOARD TO GRADE BEAM WITH POWDER ACTUATED NAILER. SPACE NAILS AT MAXIMUM 12\"/>
 - PLACE PENETRATION DETAIL AT ALL LOCATIONS WHERE GEOMEMBRANE IS PENETRATED BY A PROPOSED OR EXISTING FEATURE SUCH AS A MANHOLE, LIGHTPOLE BASE, BOLLARD BASE, ETC.

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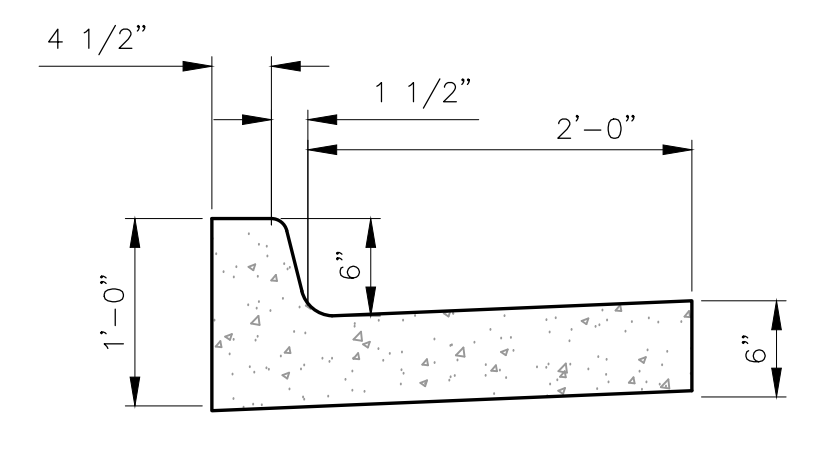
THORNTON JUSTICE CENTER
PHASE III

SECTIONS AND DETAILS
(1 OF 2)

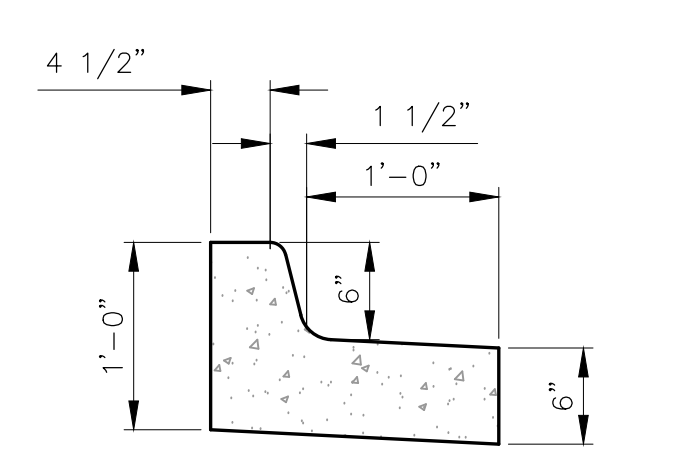
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RJH PROJECT 21129

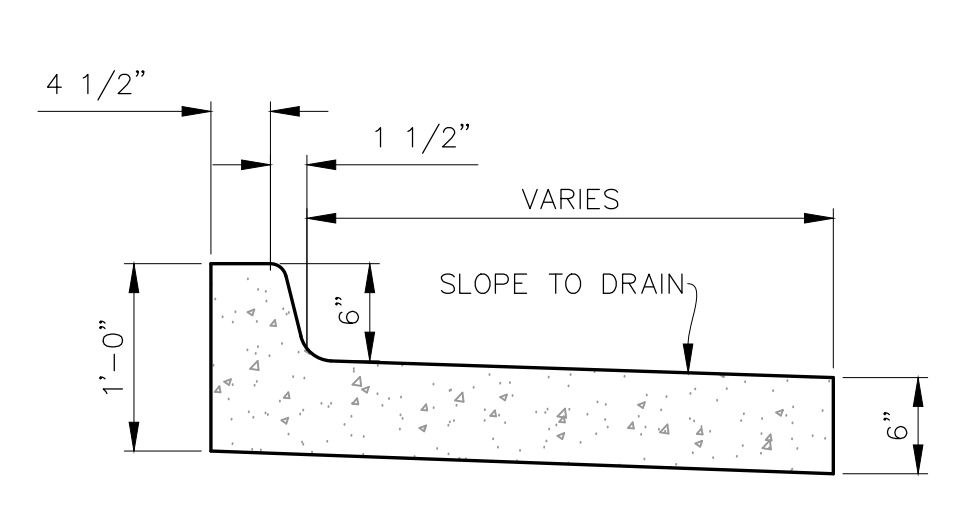
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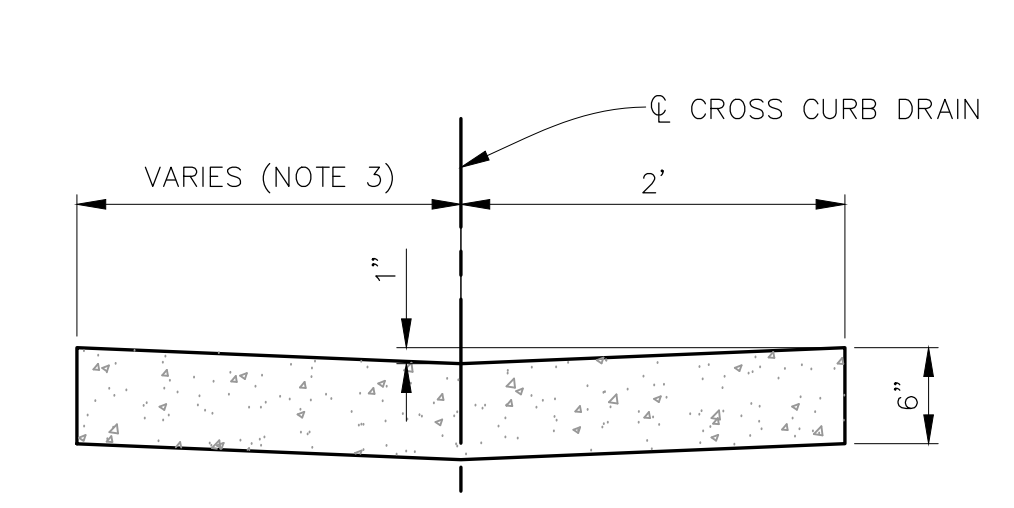
TYPICAL DETAIL
CONCRETE CURB AND GUTTER TYPE IIB
SCALE IN FEET



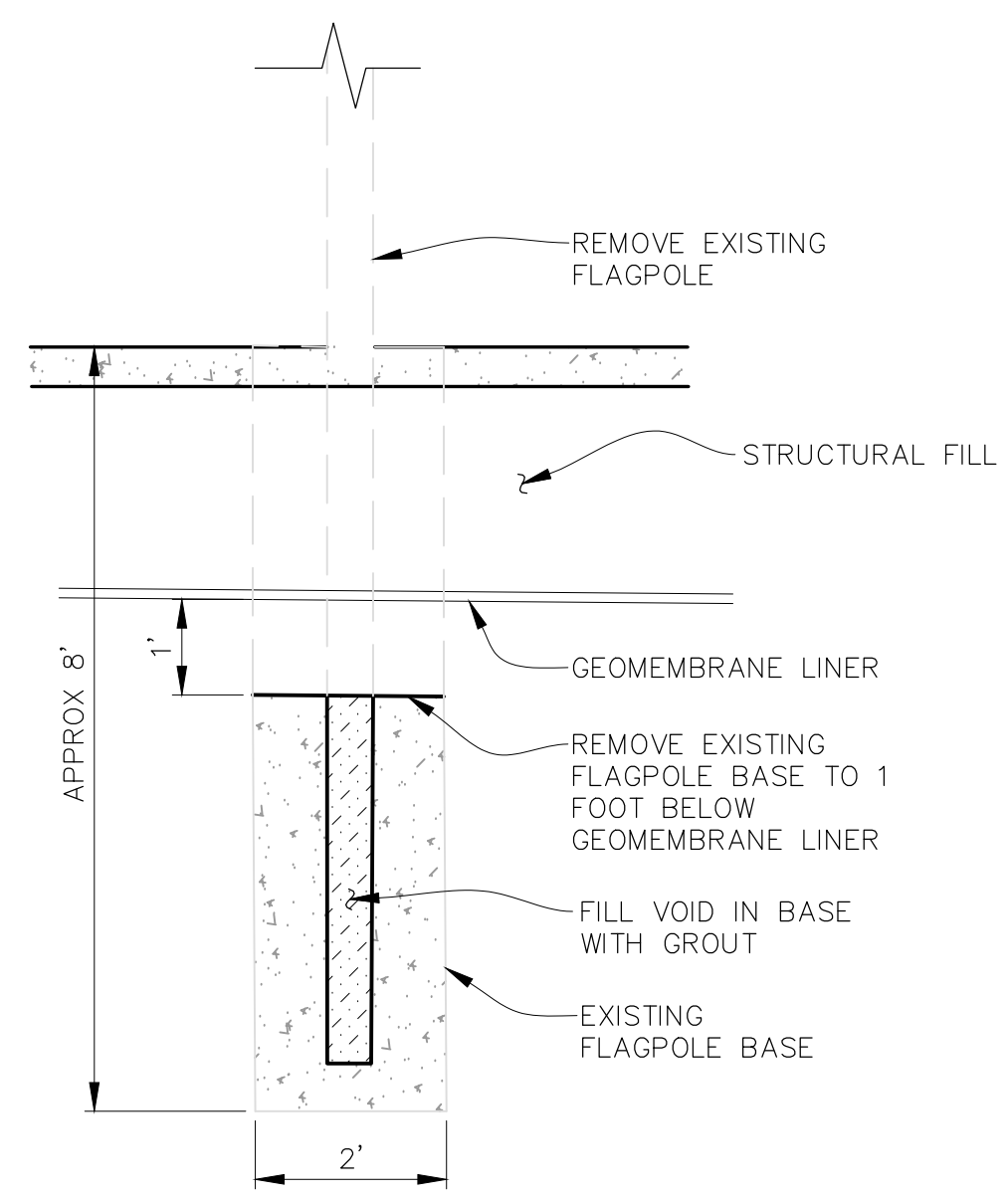
TYPICAL DETAIL
CONCRETE CURB AND GUTTER TYPE IB
SCALE IN FEET



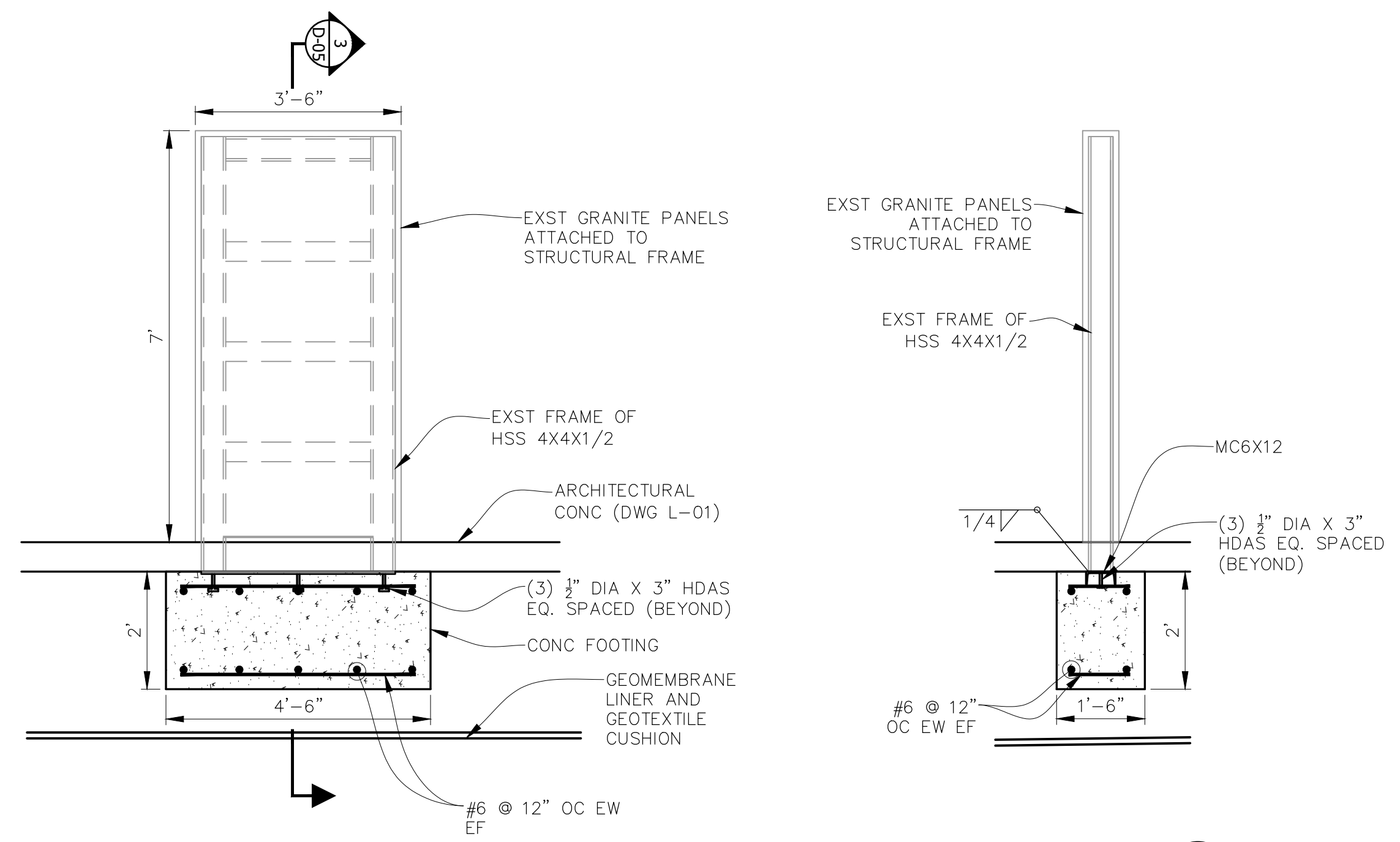
TYPICAL DETAIL
COMBINATION CURB AND SIDEWALK
SCALE IN FEET



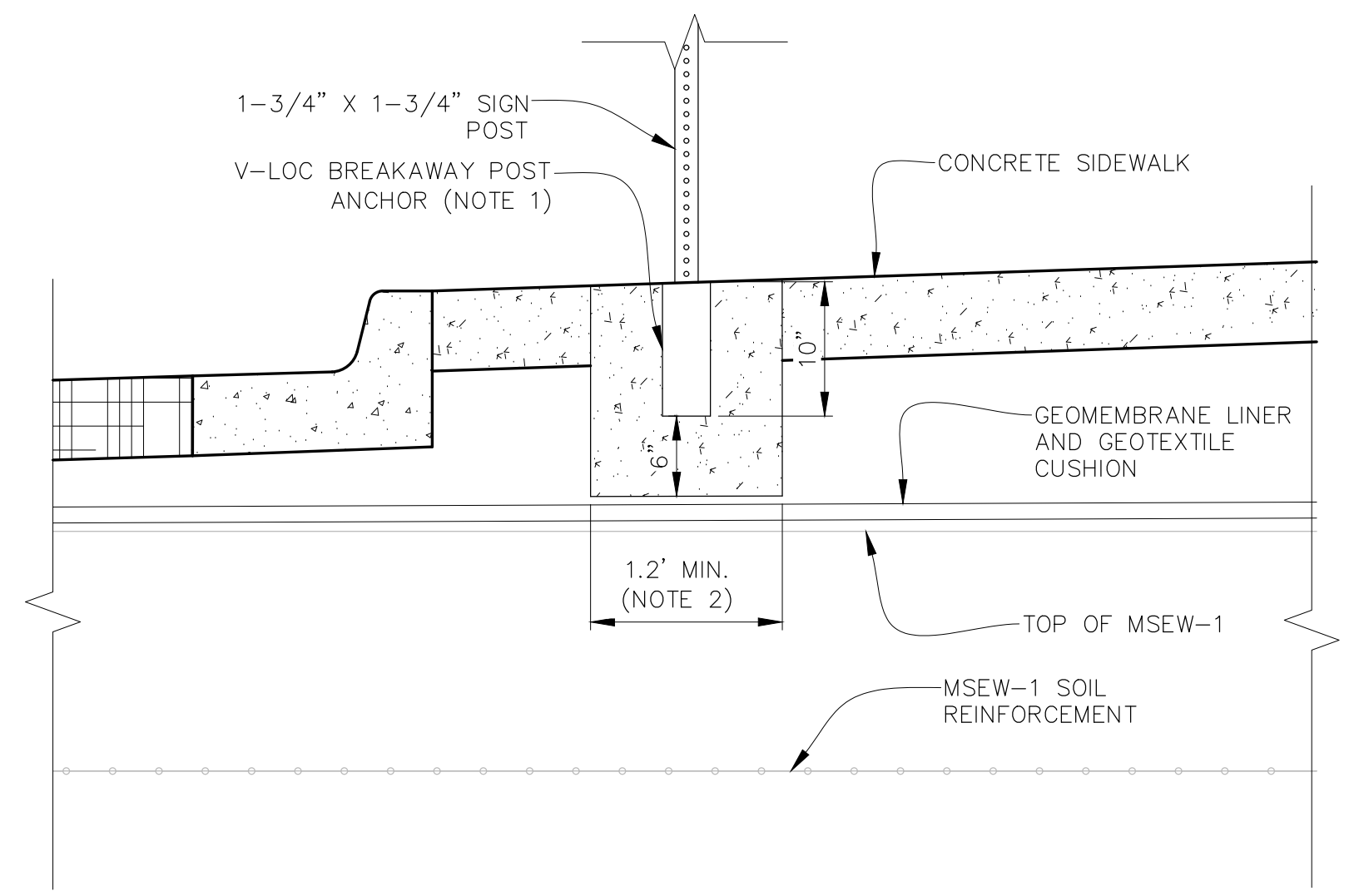
TYPICAL DETAIL
CROSS CURB DRAIN
SCALE IN FEET



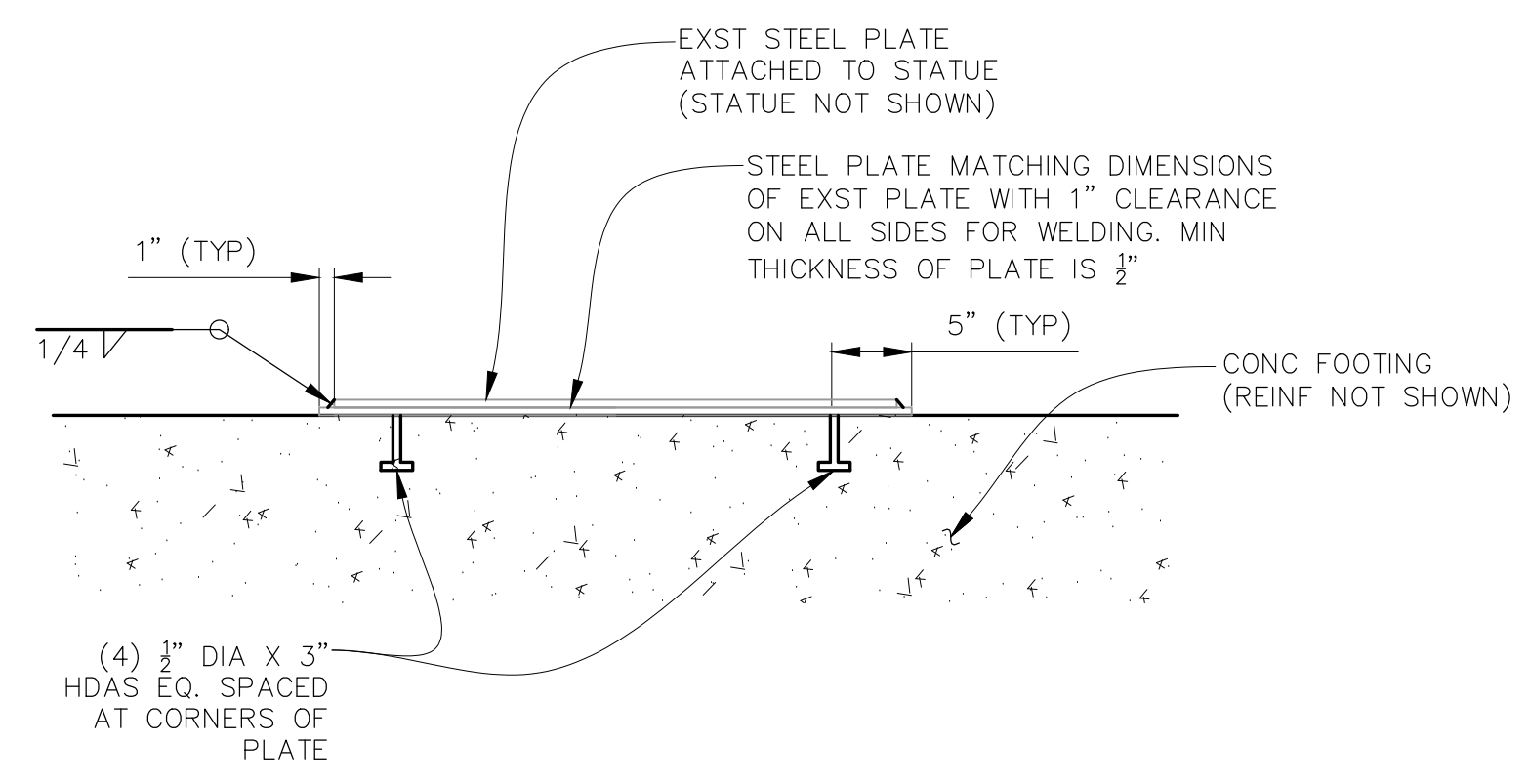
TYPICAL DETAIL
EXISTING FLAGPOLE BASE
SCALE IN FEET



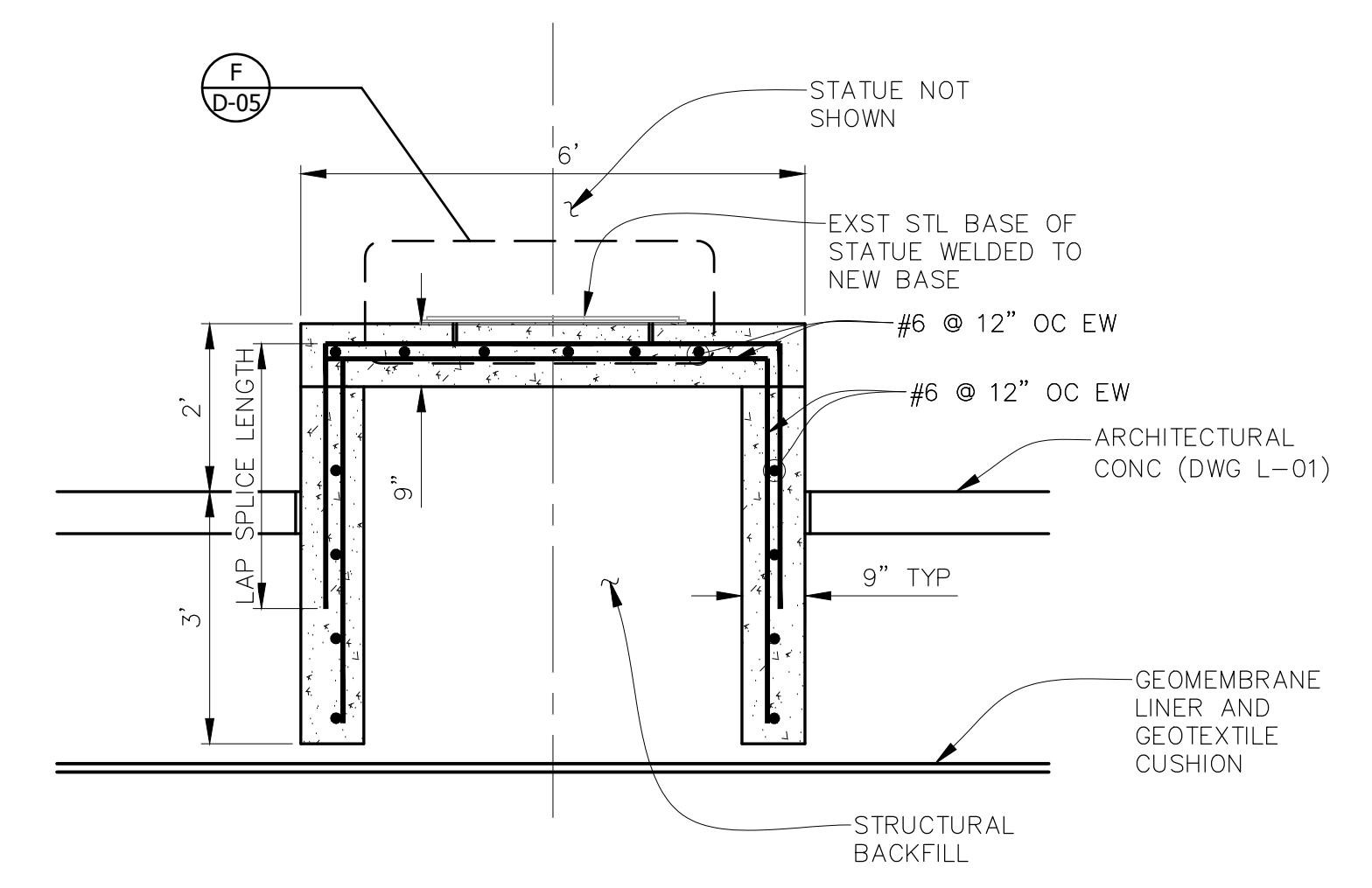
SHERIFF'S MEMORIAL PANELS INSTALLATION DETAIL (NOTE 5)
NOT TO SCALE



TYPICAL DETAIL
SIGN POST ANCHOR ABOVE GEOMEMBRANE
SCALE IN FEET



DETAIL
NOT TO SCALE



STATUE & STATUE PEDESTAL INSTALLATION DETAIL (NOTE 5)
NOT TO SCALE

- NOTES:
1. MATERIALS AND INSTALLATION PER THORNTON STANDARDS AND SPECIFICATIONS DETAIL 700-11.
 2. EMBED SIGN ANCHOR IN CONCRETE. CONCRETE SHALL EXTEND TO A MINIMUM OF 6" BELOW AND CLEAR OF ANY SIDE OF THE V-LOC ANCHOR.
 3. WIDTH VARIES TO MATCH EXISTING ASPHALT.
 4. MODIFICATIONS TO TYPICAL CURB AND GUTTER HEIGHT AND WIDTH PER GRADING PLAN.
 5. REFERENCE ARCHITECTURAL SHEETS FOR LOCATION AND DETAILS.

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THORNTON JUSTICE CENTER
PHASE III

SECTIONS AND DETAILS
(2 OF 2)

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PROJECT FLAG NOTES

- 1 REMOVE EXISTING LIGHT POLE/LUMINAIRE(S) AND PRESERVE AND PROTECT FOR RE-INSTALLATION. CONCRETE BASE SHALL REMAIN (UNLESS NOTED OTHERWISE ON THE DRAWINGS) PRESERVE AND PROTECT. REMOVE EXISTING BRANCH CIRCUIT CONDUCTORS BETWEEN POLES. REMOVE UNDERGROUND BRANCH CIRCUIT CONDUIT BETWEEN POLES FOR PROJECT EXCAVATION.
DETERMINE EXISTING BRANCH CIRCUIT FEEDER ROUTING BACK TO THE MAIN BUILDING. PRESERVE AND PROTECT EXISTING BRANCH CIRCUIT FEEDERS AT THE POINT THEY EXIT THE MAIN BUILDING FOR RECONNECTION AND RE-EXTENSION TO SITE LIGHTING.
INTERCEPT EXISTING UNDERGROUND CONDUIT OUTSIDE OF CONCRETE BASE AND EXTEND NEW CONDUIT TO ADJACENT LIGHT POLE LOCATIONS. INSTALL NEW 1" PVC SCHEDULE 80 CONDUIT ROUTED UNDERGROUND 18" BELOW GRADE IN LANDSCAPE AREAS AND 12" BELOW BOTTOM OF PAVEMENT IN PAVED AREAS. PROVIDE ELECTRICAL WARNING TAPE SIX INCHES CENTERED ABOVE CONDUIT IN COMPLIANCE WITH SPECIFICATIONS. PROVIDE NEW BRANCH CIRCUIT CONDUCTORS FROM POLE TO POLE (MATCH EXISTING CONDUCTOR SIZE).
- 2 REMOVE EXISTING IN-GRADE WALL WASH LUMINAIRE AND ASSOCIATED BRANCH CIRCUIT FEEDERS. DISCARD LUMINAIRES.
- 3 EXISTING IN-GRADE ELECTRICAL PULL BOX ASSOCIATED WITH EXISTING ENTRY GATE OPERATOR POWER AND IRRIGATION CONTROLLER POWER TO REMAIN AND BE REUSED FOR ENTRY GATE AND IRRIGATION CONTROLLER POWER CONNECTION. PROVIDE TEMPORARY POWER FOR GATES AND IRRIGATION CONTROLLER DURING CONSTRUCTION.
- 4 EXISTING IN-GRADE ELECTRICAL PULL BOX WITHIN EXCAVATION AREA TO BE REMOVED. IDENTIFY EXISTING BRANCH CIRCUIT FEEDERS PASSING THROUGH THE PULL BOX AND SITE ELECTRICAL ELEMENTS BEING SERVED. PRESERVE AND PROTECT EXISTING BRANCH CIRCUIT FEEDERS FROM THE POINT THEY EXIT THE MAIN BUILDING TO THE PULL BOX FOR RECONNECTION.
- 5 EXISTING UNDERGROUND BRANCH CIRCUIT STUBBED INTO MEDIAN FOR FUTURE. DETERMINE EXISTING BRANCH CIRCUIT FEEDER ROUTING BACK TO THE MAIN BUILDING. PRESERVE AND PROTECT EXISTING BRANCH CIRCUIT FEEDERS AT THE POINT THEY EXIT THE MAIN BUILDING FOR RECONNECTION AND RE-EXTENSION TO MEDIAN.
- 6 REMOVE EXISTING BOLLARD LIGHT AND CONCRETE BASE. REMOVE EXISTING BRANCH CIRCUIT FEEDERS BETWEEN POLES AND BACK TO THE BUILDING. REMOVE CONDUCTORS BACK TO THE SERVING PANEL INSIDE THE BUILDING.
- 7 REMOVE EXISTING SCULPTURE FLOOD LIGHT AND CONCRETE BASE. REMOVE EXISTING BRANCH CIRCUIT FEEDERS BETWEEN POLES AND BACK TO THE BUILDING. REMOVE CONDUCTORS BACK TO THE SERVING PANEL INSIDE THE BUILDING.
- 8 REMOVE EXISTING IN-GRADE FLAG FLOOD LIGHT AND CONCRETE BASE. REMOVE EXISTING BRANCH CIRCUIT CONDUCTORS BETWEEN POLES AND BACK TO THE SERVING PANEL INSIDE THE BUILDING.
- 9 SECURITY VEHICLE GATE CONTROLLER AND MOTOR WITH VEHICLE DETECTOR LOOPS TO REMAIN. PROVIDE TEMPORARY POWER AND SECURITY CABLING TO MAINTAIN OPERABILITY DURING CONSTRUCTION. DETERMINE EXISTING GATE SECURITY CABLE ROUTING BACK TO THE MAIN BUILDING. PRESERVE AND PROTECT EXISTING SECURITY CABLE INSIDE THE BUILDING AT THE POINT IT EXITS THE MAIN BUILDING FOR RECONNECTION AND RE-EXTENSION TO THE CAMERA.
- 10 REMOVE EXISTING POLE MOUNTED SECURITY CAMERA PRESERVE AND PROTECT FOR RE-INSTALLATION. DETERMINE EXISTING BRANCH CIRCUIT FEEDER ROUTING BACK TO THE MAIN BUILDING. PRESERVE AND PROTECT EXISTING BRANCH CIRCUIT FEEDERS AT THE POINT THEY EXIT THE MAIN BUILDING FOR RECONNECTION AND RE-EXTENSION TO THE CAMERA.
DETERMINE EXISTING CAMERA SECURITY CABLE ROUTING BACK TO THE MAIN BUILDING. PRESERVE AND PROTECT EXISTING SECURITY CABLE INSIDE THE BUILDING AT THE POINT IT EXITS THE MAIN BUILDING FOR RECONNECTION AND RE-EXTENSION TO THE CAMERA.
- 11 REMOVE AND RE-INSTALL BUILDING ELECTRICAL GROUND RING SYSTEM AS NECESSARY TO FACILITATE MEMBRANE EXCAVATION ACTIVITIES. REPAIR USING NEW ELECTRODE MATERIAL TYPE AND RATING TO MATCH EXISTING. INSTALL IN COMPLIANCE WITH SPECIFICATIONS AS NOTED ON DETAILS SHEET.
- 12 ALL EXISTING CONDUIT/WIRE WITHIN EXCAVATION AREA TO BE REMOVED FOR MEMBRANE INSTALLATION AND RE-INSTALLED A MINIMUM OF 18" BELOW GRADE (REFER TO DETAIL 3 ON PAGE 28. CONTRACTOR TO VERIFY CONDUIT/WIRE SIZES, ORIGINATION, AND TERMINATION PRIOR TO REMOVAL. INSTALL NEW FEEDER OF SAME SIZE AND RATING AS EXISTING IN COMPLIANCE WITH SPECIFICATIONS.
- 13 PROVIDE NEW FLUSH WITH GRADE PULL BOX WITH OPEN BOTTOM TO ALLOW ANY WATER IN THE SITE CONDUIT TO SEEP INTO THE GROUND AND NOT DRAIN THROUGH THE CONDUIT BACK TO THE PANELS.
- 14 TEST ALL EXISTING, RECONNECTED, AND RE-INSTALLED SITE BRANCH CIRCUITS FOR CONTINUITY AFTER INSTALLATION. TEST ALL LIGHTING BRANCH CIRCUITS FOR PROPER CONTROL OPERATION. TEST ALL SITE SECURITY FOR CONTINUITY AND FUNCTION.

SITE PLAN GENERAL NOTES

CIRCUITING ROUTING SHOWN IS DIAGRAMMATIC. CIRCUIT HOMERUN DESIGNATIONS ARE INDICATED AND SHALL BE STRICTLY FOLLOWED. ALL CIRCUITING SHALL BE COPPER CONDUCTORS IN CONDUIT. CONTRACTOR SHALL PROVIDE ALL WIRE, CONDUIT, JUNCTION/PULL BOXES, AND SUPPORTS ETC. FOR A COMPLETE ELECTRICAL SYSTEM.

ALL WIRING SHALL BE IN COMPLIANCE WITH THE NEC LATEST EDITION: ALL MULTI-WIRE BRANCH CIRCUITS (120V OR 277V SINGLE PHASE CIRCUITS) IDENTIFIED IN THE PANEL SCHEDULES ORIGINATING FROM SINGLE POLE BREAKER SHALL BE INSTALLED WITH A DEDICATED NEUTRAL CONDUCTOR FOR EACH PHASE CONDUCTOR. THE NEUTRAL CONDUCTOR SHALL HAVE A TRACER STRIPE (THE STRIPE COLOR SHALL MATCH THE COLOR OF THE PHASE CONDUCTOR).

REFER TO THE ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INSTALLATION, CONDUIT DEPTHS, AND SPECIFICATION REQUIREMENTS. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE TO THE MOST CURRENT LOCAL CODES AND THE NEC LATEST EDITION.

ALL DISTRIBUTION AND BRANCH CIRCUIT FEEDERS SHALL BE PROVIDED WITH AN INSULATED, GREEN GROUND WIRE.

ALL UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC WITH PVC COATED GRC ELBOWS AND RISERS TO 4 FEET ABOVE GRADE AND 1 INCH MINIMUM DIAMETER, UNLESS NOTED OTHERWISE.

ALL UNDERGROUND COMMUNICATION, ELECTRICAL FEEDER, AND BRANCH CIRCUITS SHALL BE INSTALLED A MINIMUM OF 30 INCHES BELOW GRADE WITH BURIED ELECTRICAL WARNING TAPE INSTALLED DIRECTLY ABOVE BETWEEN 6 AND 12 INCHES BELOW GRADE. CONTRACTOR SHALL PROVIDE PULL BOXES AS REQUIRED TO MINIMIZE THE NUMBER OF BENDS TO MEET CODE.

ALL ELECTRICAL DEVICE LOCATIONS SHALL BE COORDINATED WITH THE CIVIL DRAWINGS/ARCHITECT PRIOR TO ROUGH-IN TO DETERMINE TYPICAL INSTALLATION REQUIREMENTS/LOCATIONS IN RELATION TO THE SITE LANDSCAPE AND CIVIL ELEMENTS.

UNDERGROUND CONDUIT IS INDICATED BY DASHED LINES, UBE, USE, UPE, OR UC.

ROUTE ALL INTERIOR CONDUIT/CIRCUITING IN FINISHED SPACES CONCEALED IN WALLS, ABOVE CEILINGS, OR BELOW FLOORS. ALL CONDUIT/CIRCUITING SHALL BE RUN PARALLEL TO BUILDING WALLS. ANY SURFACE MOUNTED CONDUIT IN FINISHED SPACES OR MOUNTED ON FINISHED SURFACES SHALL BE PAINTED TO MATCH THE SURFACE ON WHICH IT IS MOUNTED.

INSULATION COLOR: ALL INSULATED CONDUCTORS (DISTRIBUTION FEEDERS, AND BRANCH CIRCUIT) SHALL HAVE FULL COLORED INSULATION, COLORS AS SPECIFIED IN SECTION 26 05 53 IDENTIFICATION FOR ELECTRICAL SYSTEMS, FOR THE ENTIRE LENGTH OF THE CONDUCTOR. NEUTRAL CONDUCTORS INSTALLED, IN COMPLIANCE WITH THE NEC-LATEST EDITION FOR EACH SINGLE POLE BREAKER, SHALL HAVE A TRACER STRIPE TO MATCH THE CORRESPONDING PHASE CONDUCTOR COLOR.

FOR STEEL CONDUIT LARGER THAN 1/2-INCH SIZE, PROVIDE STEEL INSULATED TYPE BUSHINGS, DESIGNED TO PREVENT ABRASION OF WIRES WITHOUT IMPAIRING THE CONTINUITY OF THE CONDUIT GROUNDING SYSTEM. GROUNDING BUSHINGS SHALL BE LOCKING TYPE AND SHALL BE PROVIDED WITH A FEED-THROUGH COMPRESSION LUG FOR SECURING THE GROUND CABLES. PROVIDE LISTED WATERPROOF FITTINGS FOR ALL CONDUIT IN WET LOCATIONS, SUCH AS EXPOSED TO WEATHER.

GROUNDING BUSHINGS SHALL BE STEEL AND INSTALLED AT BOTH ENDS OF THE CONDUIT ON ALL FEEDERS, AS WELL AS ALL TRANSFORMER, MOTOR, MOTOR CONTROLLER, KITCHEN, AND TVSS EQUIPMENT BRANCH CIRCUITS.

LIQUID TIGHT FLEXIBLE METAL CONDUIT SHALL BE PROVIDED IN SUFFICIENT LENGTHS FOR MAKEUP OF MOTORS, TRANSFORMERS, OR EQUIPMENT, AND/OR RACEWAY CONNECTIONS WHERE ISOLATION OF SOUND AND VIBRATION TRANSMISSION IS REQUIRED.

ALL PANELS WITH CIRCUITS INDICATED TO BE MODIFIED IN THESE DOCUMENTS SHALL BE PROVIDED WITH AN UPDATED, TYPED, PANEL DIRECTORY. INCLUDE CONTRACTOR'S CONTACT INFORMATION AND CLOSE-OUT DATE OF THE PROJECT.

DEMOLITION GENERAL NOTES

AS-BUILT CONDITIONS HAVE BEEN DETERMINED FROM RECORD DRAWINGS (IF THEY EXIST), FIELD INVESTIGATIONS (ACCESSIBLE AREAS AND EQUIPMENT), AND DISCUSSIONS WITH MAINTENANCE PERSONNEL (WHERE THEY ARE AVAILABLE). THE ENGINEER DOES NOT GUARANTEE THE ACCURACY OF THIS INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR INVESTIGATING AS-BUILT CONDITIONS PRIOR TO ANY DEMOLITION AND/OR MODIFICATIONS. SHOULD THERE BE ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND THE DESIGN INTENT THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT/ENGINEER.

COORDINATE ALL DEMOLITION WITH GENERAL DEMOLITION AS WELL AS MECHANICAL DEMOLITION. DISCONNECT ALL ELECTRICAL PRIOR TO DEMOLITION BY OTHER TRADES. REFER TO THE ARCHITECTURAL AND MECHANICAL PLANS FOR ADDITIONAL INFORMATION.

CONTRACTOR SHALL COORDINATE WITH THE OWNER OR THEIR AUTHORIZED REPRESENTATIVE, TO DETERMINE ALL EXISTING EQUIPMENT AND DEVICES TO BE RETAINED BY THE OWNER. CONTRACTOR SHALL CAREFULLY REMOVE ALL EQUIPMENT AND DEVICES TO BE RETAINED, PRESERVE AND STORE THE EQUIPMENT IN A LOCATION DESIGNATED BY THE OWNER. ALL OTHER DEVICES, EQUIPMENT, AND DEBRIS SHALL BE DISPOSED OF BY THE CONTRACTOR AT AN APPROPRIATE OFFSITE LOCATION.

CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL, PRESERVATION, STORAGE, AND PROTECTION OF ALL EQUIPMENT AND DEVICES DESIGNATED TO BE REMOVED AND RE-INSTALLED.

ALL LUMINAIRES INDICATED TO BE REMOVED AND RE-INSTALLED SHALL BE CLEANED AND/OR REPAIRED PRIOR TO RE-INSTALLATION, INCLUDING RELAMPING TO REPLACE NON-WORKING LAMPS OR TO PROVIDE LAMPS WITH COLOR TEMPERATURE TO MATCH SPECIFICATIONS.

ALL ABANDONED DEVICES, EQUIPMENT, CONDUIT, WIRE, CABLE, ETC. (WHETHER ABANDONED BY THIS PROJECT OR PREVIOUSLY ABANDONED) SHALL BE REMOVED.

POWER SYSTEMS: ALL FEEDERS AND BRANCH CIRCUITS CONDUIT AND CONDUCTORS SHALL BE REMOVED BACK TO THE SOURCE OR NEAREST REMAINING DEVICE AS APPLICABLE.

IT AND DATA SYSTEMS: ALL CONDUIT AND/OR CABLE ASSOCIATED WITH VOICE/DATA DEVICES SHALL BE REMOVED BACK TO THE SOURCE UNLESS DIRECTED OTHERWISE BY NOTE OR BY THE OWNER OR THEIR AUTHORIZED REPRESENTATIVE.

EXISTING ELECTRICAL EQUIPMENT, DEVICES, AND WIRING TO REMAIN WHERE INDICATED. RESTORE THE FUNCTION OF ANY REMAINING EQUIPMENT THAT IS AFFECTED BY MODIFICATIONS TO THE ELECTRICAL SYSTEM IN OTHER AREAS AS SOON AS POSSIBLE AND AT NO ADDITIONAL COST TO THE OWNER. ALL REPAIRS SHALL BE COORDINATED WITH THE ARCHITECT/ENGINEER. CONTRACTOR SHALL MAKE REASONABLE EFFORT TO LOCATE ALL AFFECTED DEVICES AND RESTORE FUNCTIONALITY.

EXISTING DEVICES INDICATED TO BE RECONNECTED TO NEW CIRCUITS AND/OR PANELS SHALL USE NEW CIRCUITS INDICATED. THE EXISTING BRANCH CIRCUIT SHALL BE INTERCEPTED NEAR THE FIRST REMAINING DEVICE AND NEW CONDUIT/WIRE INSTALLED FROM THAT POINT BACK TO THE NEW DESTINATION (I.E. PANEL).

ALL ELECTRICAL AND LIFE SAFETY SYSTEMS THAT EXTEND INTO OCCUPIED AREAS SHALL REMAIN OPERATIONAL. CONTRACTOR SHALL COORDINATE ALL OUTAGES A MINIMUM OF SEVEN DAYS PRIOR TO OUTAGE. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE PERSONNEL FOR FIRE AND SECURITY WATCH DURING OUTAGES TO FIRE AND SECURITY SYSTEMS.

POWER, LIGHTING, & TELECOM

- Ⓜ J-BOX
- Ⓜ MOTOR
- Ⓜ CEILING RECEPTACLE
- Ⓜ FLOOR RECEPTACLE
- Ⓜ DUPLEX RECEPTACLE
- Ⓜ FOUR-PLEX RECEPTACLE
- Ⓜ BLANK FACE GFCI PROTECTION DEVICE
- Ⓜ SPECIAL NEMA RECEPTACLE
- Ⓜ HEAVY DUTY DISCONNECT SWITCH
- Ⓜ MOTOR STARTER
- Ⓜ HEAVY DUTY STARTER-DISCONNECT
- Ⓜ VFD MOTOR STARTER
- Ⓜ VFD HEAVY DUTY STARTER-DISCONNECT
- Ⓜ TRANSFORMER
- Ⓜ SURGE SUPPRESSION DEVICE
- Ⓜ METER
- Ⓜ THERMAL OVERLOAD SW
- Ⓜ BRANCH CIRCUIT PANEL
- ▶ TELEPHONE OUTLET
- ▶ TELE-DATA OUTLET
- ▶ DATA OUTLET
- ▶ TELEPHONE OUTLET FLOOR
- ▶ TELE-DATA OUTLET FLOOR
- ▶ TV OUTLET
- ▶ EMERGENCY BATTERY LIGHT
- ▶ WALL MOUNTED EXIT SIGN
- ▶ CEILING MOUNT EXIT SIGN
- ▶ CLG MNT EX/EM LT COMBO
- SURFACE WALL LUMINAIRE
- SURFACE CEILING LUMINAIRE
- KEYLESS LAMP HOLDER
- Ⓜ RECESSED DOWNLIGHT
- Ⓜ RECESSED WALL WASHER LUMINAIRE STRIP
- Ⓜ SURFACE OR WALL LUMINAIRE
- Ⓜ RECESSED LUMINAIRE
- TRACK LIGHTING
- PARKING LOT POLE LIGHT
- PEDESTRIAN POLE LUMINAIRE
- △ FLOOD LUMINAIRE
- S SWITCH
- S₃ 3-WAY SWITCH
- S_{OS} OCCUPANCY SENSOR SWITCH
- S_{OO} OCC. SENSOR DIMMER SWITCH
- S_{LV} LOW VOLTAGE SWITCH
- D DIMMER SWITCH
- Ⓜ PHOTOCELL
- Ⓜ OCCUPANCY SENSOR
- Ⓜ OCC. SEN. POWER PACK
- Ⓜ ROOM CONTROLLER
- Ⓜ TIME CLOCK
- Ⓜ CLOCK-WALL MOUNT
- Ⓜ CLOCK/SPEAKER IN COMBINATION BACK-BOX
- Ⓜ SPEAKER-WALL MOUNT
- Ⓜ SPEAKER HORN-WALL MOUNT
- Ⓜ SPEAKER-RECESSED CEILING (HARD CEILING)
- Ⓜ SPEAKER-RECESSED CEILING (LAYIN GRID CEILING)
- Ⓜ SPEAKER-SURFACE OR PENDANT MOUNT CEILING
- Ⓜ CALL STATION
- Ⓜ PUSH BUTTON STATION

GENERAL

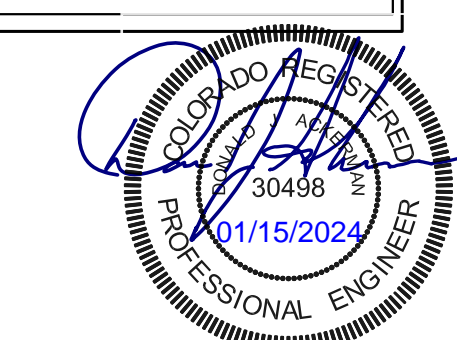
- Ⓜ SECTION BUBBLE + SECTION LETTER # REFERENCE DWG NUMBER
- Ⓜ REFERENCE BUBBLE + SECTION NUMBER # REFERENCE NUMBER
- Ⓜ REVISION NUMBER
- Ⓜ EQUIPMENT TAG
- Ⓜ DRAWING NOTE
- Ⓜ FLAG NOTE
- Ⓜ BREAKLINE
- Ⓜ MATCHLINE
- Ⓜ WIRE MOLD
- Ⓜ OVERHEAD PRIMARY ELECTRIC
- Ⓜ OVERHEAD SECONDARY ELECTRIC
- Ⓜ UNDERGROUND PRIMARY ELECTRIC
- Ⓜ UNDERGROUND SECONDARY ELECTRIC
- Ⓜ UNDERGROUND BRANCH ELECTRIC
- Ⓜ OVERHEAD BRANCH ELECTRIC
- Ⓜ UNDERGROUND COMMUNICATION
- Ⓜ BOLD LINEWEIGHT AND/OR "N" INDICATES NEW DEVICE OR EQUIPMENT
- Ⓜ BOLD LINEWEIGHT AND/OR "R" INDICATES DEVICE OR EQUIPMENT TO BE REPLACED
- Ⓜ LIGHT LINEWEIGHT AND/OR "E" INDICATES EXISTING DEVICE TO REMAIN
- Ⓜ DASHED LINETYPE AND/OR "D" INDICATES DEVICE TO BE REMOVED / DEMOLISHED

ELECTRONIC SAFETY & SECURITY

- Ⓜ MAGNETIC DOOR HOLD
- Ⓜ SMOKE DETECTOR
- Ⓜ THERMAL DETECTOR
- Ⓜ DUCT SMOKE DETECTOR
- Ⓜ MANUAL PULL STATION
- Ⓜ COMBO SPEAKER/STROBE
- Ⓜ CEILING ALARM STROBE LIGHT
- Ⓜ WALL ALARM STROBE LIGHT
- Ⓜ ALARM SPEAKER OR HORN
- Ⓜ REMOTE INDICATOR LIGHT
- Ⓜ FLOW SWITCH
- Ⓜ TAMPER SWITCH
- Ⓜ CONTROL MODULE
- Ⓜ MONITOR MODULE
- Ⓜ BEAM DETECTION TRANSMITTER
- Ⓜ BEAM DETECTION RECEIVER
- Ⓜ CARBON MONOXIDE DETECTOR
- Ⓜ REMOTE TEST SWITCH
- Ⓜ AIPHONE MONITOR STATION
- Ⓜ AIPHONE INTERCOM STATION
- Ⓜ ELECTRIC DOOR HARDWARE
- Ⓜ GLASS BREAK DETECTOR
- Ⓜ CAMERA
- Ⓜ MOTION SENSOR
- Ⓜ CARD READER
- Ⓜ DOOR POSITION SWITCH
- Ⓜ DOOR STRIKE
- Ⓜ SECURITY CONTROL KEYPAD

DEFINITIONS

- AC INDICATES ABOVE COUNTER, COORDINATE EXACT HEIGHT
- BC INDICATES BELOW COUNTER, COORDINATE EXACT HEIGHT
- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- GFI INDICATES GROUND FAULT CIRCUIT INTERRUPT DEVICE
- D INDICATES EXISTING DEVICE TO BE REMOVED
- E INDICATES EXISTING DEVICE TO REMAIN AS IS
- R INDICATES EXISTING DEVICE TO BE REPLACED
- RL INDICATES EXISTING DEVICE TO BE RELOCATED TO POSITION SHOWN
- SPD INDICATES SURGE SUPPRESSION DEVICE
- USB INDICATES UNIVERSAL SERIAL BUS DEVICE
- VFD INDICATES VARIABLE FREQUENCY MOTOR DRIVE
- WP INDICATES WEATHERPROOF EQUIPMENT/DEVICE
- EMT ELECTRICAL METALLIC CONDUIT
- FMC FLEXIBLE METALLIC CONDUIT
- LFC LIQUIDTIGHT FLEXIBLE CONDUIT
- PVC POLYVINYL CHLORIDE CONDUIT
- RNC RIGID NONMETALLIC CONDUIT
- RSC RIGID STEEL CONDUIT
- CT CURRENT TRANSFORMER
- HVAC HEATING, VENTILATION AIR CONDITIONING
- LED LIGHT EMITTING DIODE
- AIC AMPS INTERRUPTING CAPACITY
- Isc SHORT CIRCUIT CURRENT
- FLA FULL LOAD AMPS
- MCA MINIMUM CIRCUIT AMPS
- MCCB MOLDED-CASE CIRCUIT BREAKER
- MCP MOTOR CIRCUIT PROTECTOR
- MOCP MAXIMUM OVERCURRENT PROTECTION
- OCPD OVERCURRENT PROTECTIVE DEVICE
- N.C. NORMALLY CLOSED
- N.O. NORMALLY OPEN
- NEC NATIONAL ELECTRICAL CODE NFPA 70
- NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
- NFPA NATIONAL FIRE PROTECTION ASSOCIATION
- UL UNDERWRITERS LABORATORY
- ACS ACCESS CONTROL SYSTEM
- SDS SECURITY DETECTION SYSTEM
- VSS VIDEO SURVEILLANCE SYSTEM
- ANN FIRE ALARM ANNUNCIATOR PANEL
- DACT DIGITAL ALARM COMMUNICATOR TRANSMITTER
- EOL END-OF-LINE
- FACP FIRE ALARM CONTROL PANEL
- NAC NOTIFICATION APPLIANCE CIRCUIT
- SLC SIGNALING LOOP CIRCUIT
- AV AUDIOVISUAL
- MDF MAIN DISTRIBUTION FRAME
- IDF INTERMEDIATE DISTRIBUTION FRAME
- LAN LOCAL AREA NETWORK
- WAN WIDE AREA NETWORK
- TBB TELECOMMUNICATIONS BONDING BACKBONE
- TGB TELECOMMUNICATIONS GROUND BUS BAR
- UPS UNINTERRUPTIBLE POWER SUPPLY

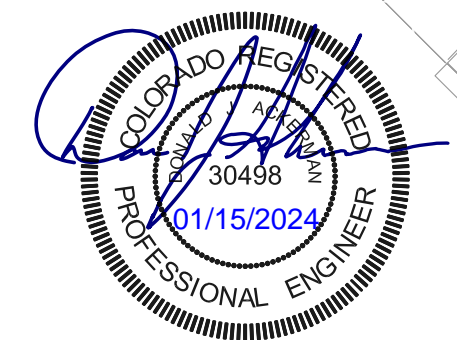
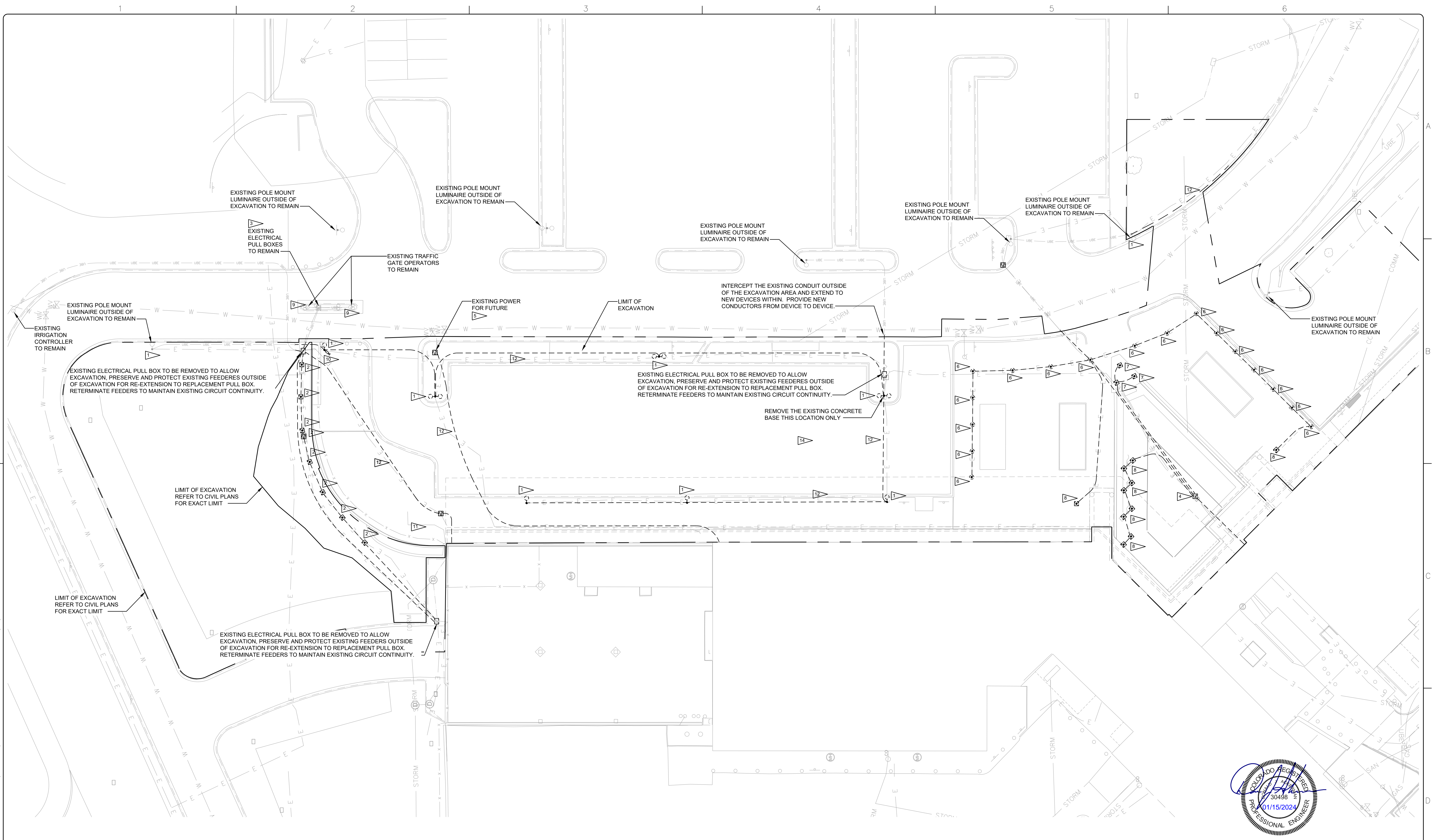


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NO.	DATE	ISSUE/REVISION	DES	DRN	CHK	APP



THORNTON JUSTICE CENTER PHASE III	ELECTRICAL LEGEND AND DRAWING NOTES	DWG. NO. E-01
RJH PROJECT 21129		SHEET NO. 27 of 46

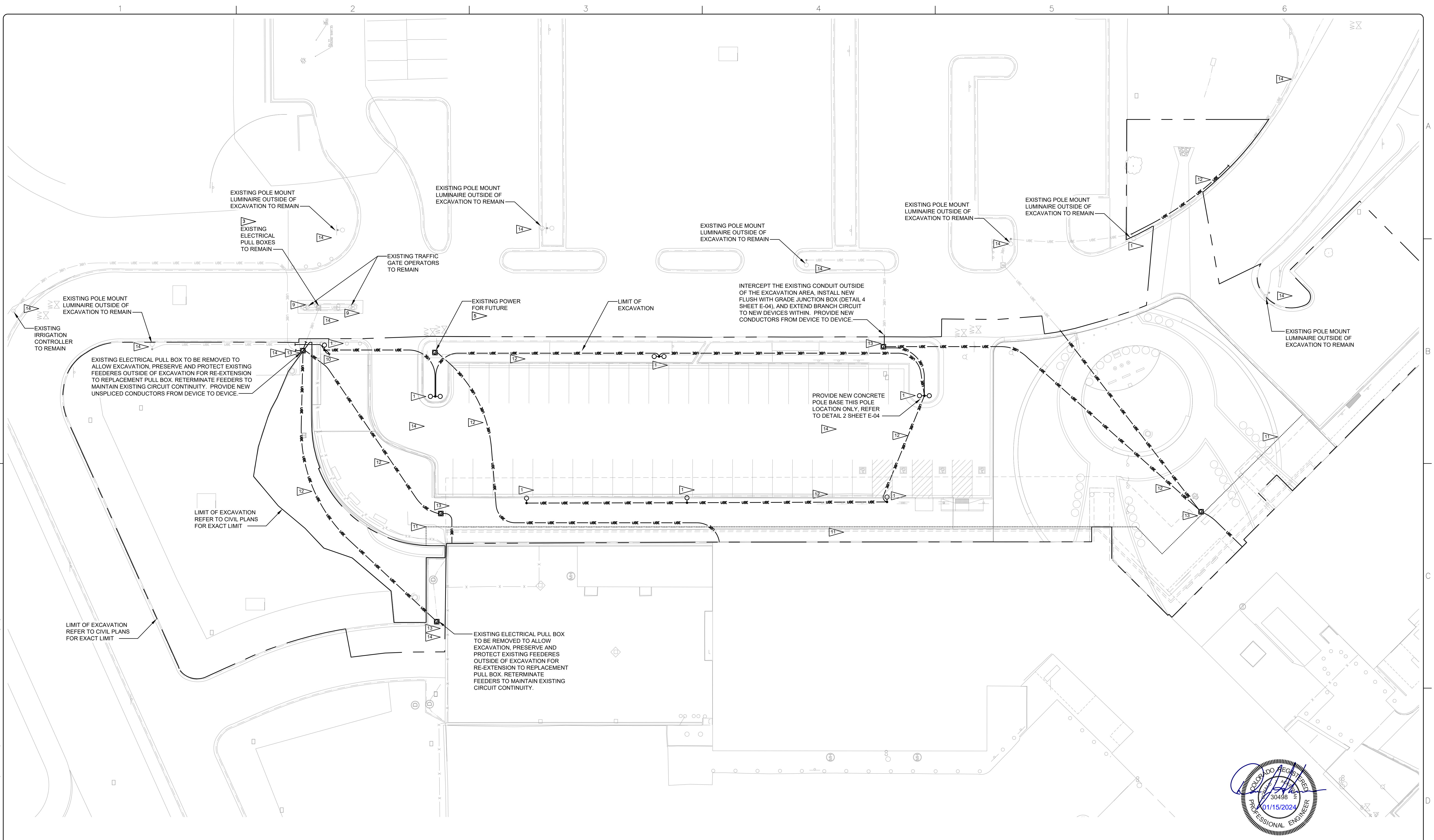


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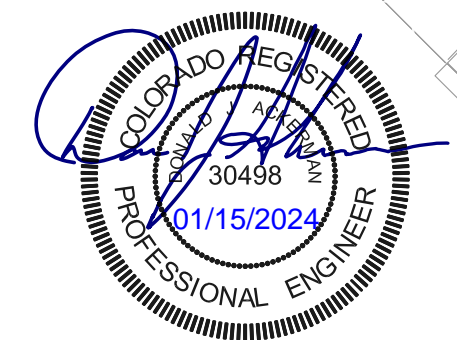
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			THORNTON JUSTICE CENTER PHASE III	SITE ELECTRICAL DEMOLITION PLAN	DWG. NO. E-02
					RJH PROJECT 21129

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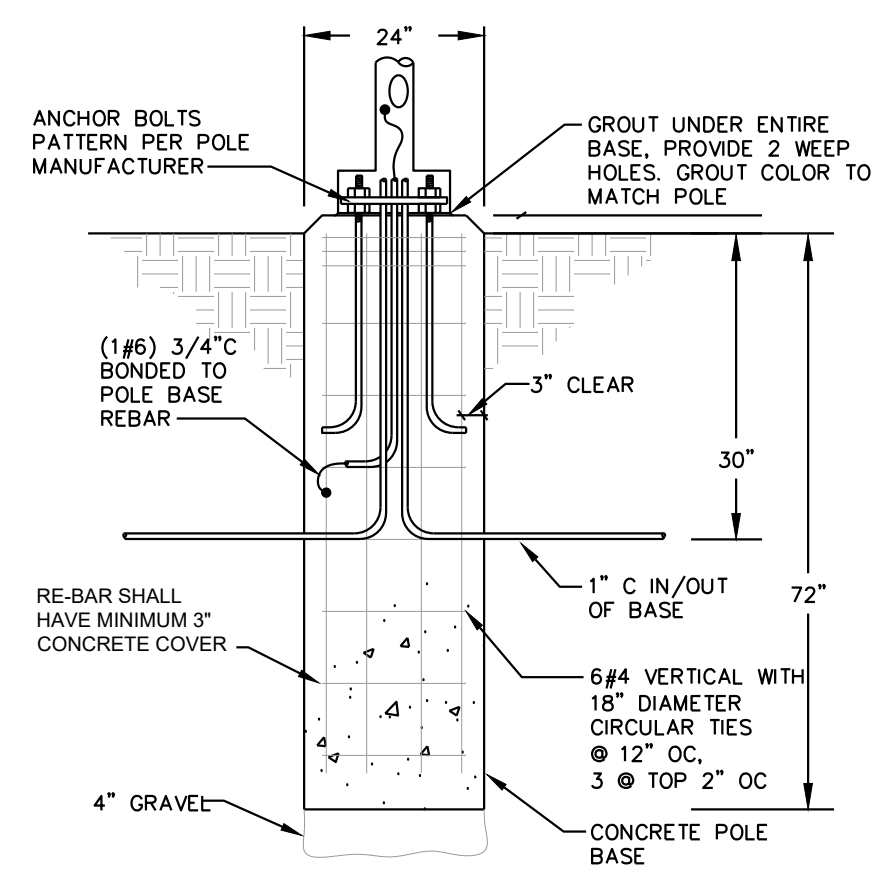


RJH PROJECT 21129

THORNTON JUSTICE CENTER
PHASE III

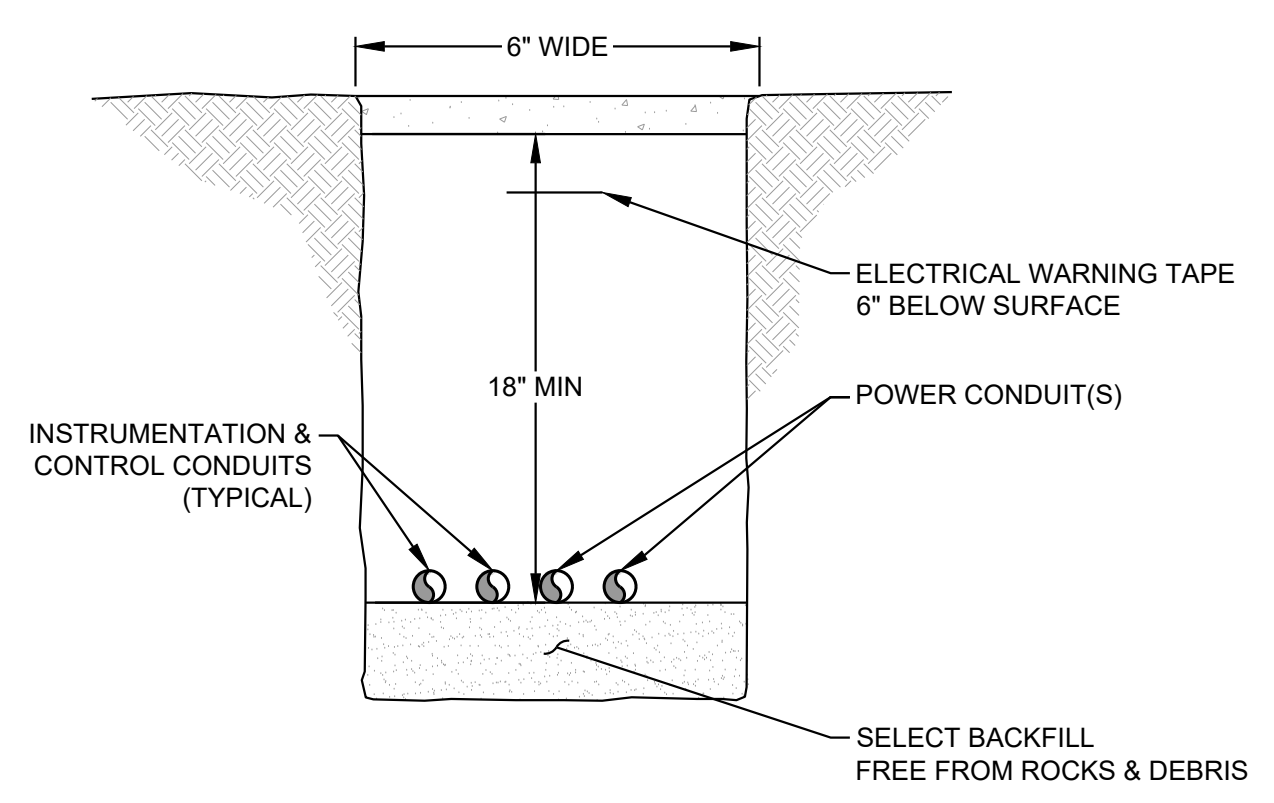
SITE ELECTRICAL
INSTALLATION PLAN

DWG. NO.
E-03
SHEET NO.
29 of 46



FLUSH POLE BASE DETAIL
NTS

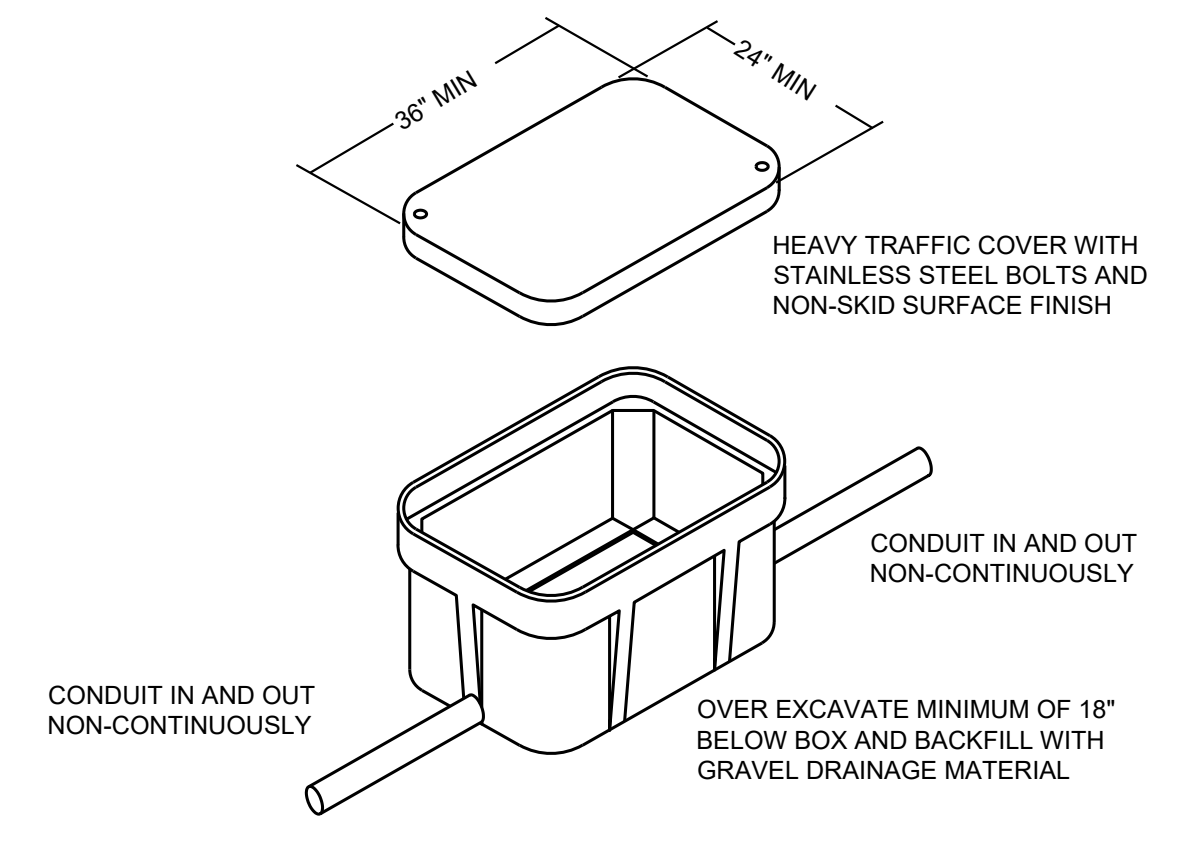
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E-04



ELECTRICAL TRENCH DETAIL
NTS

3
E-04

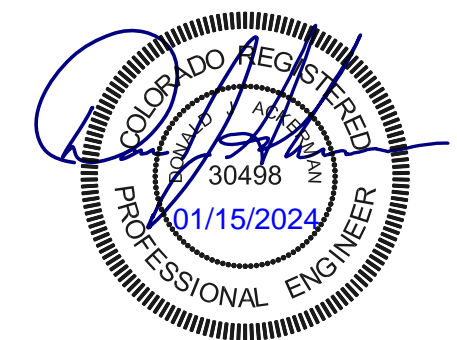
WHERE CONDUIT IS PLACED ABOVE THE GEOMEMBRANE, DEPTH SHALL BE 18 INCHES OR MAXIMUM DEPTH AVAILABLE TO MAINTAIN CONDUIT ABOVE GEOMEMBRANE. CONCRETE ENCASE THE CONDUIT (2 INCH MINIMUM COVER) WHERE THE CONDUIT IS LESS THAN 18 INCHES DEEP AND INSTALLED IN LANDSCAPE AREAS.



FLUSH WITH GRADE PULL BOX
NTS

4
E-04

TYPICAL POWER AND COMMUNICATION FEEDER PULLBOX (24"x36"x42" DEEP) QUAZITE PG STYLE SERVICE BOX WITH HEAVY DUTY BOLT ON COVER AS MANUFACTURED BY STRONGWELL

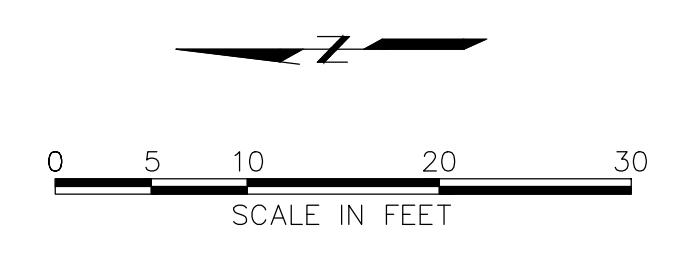
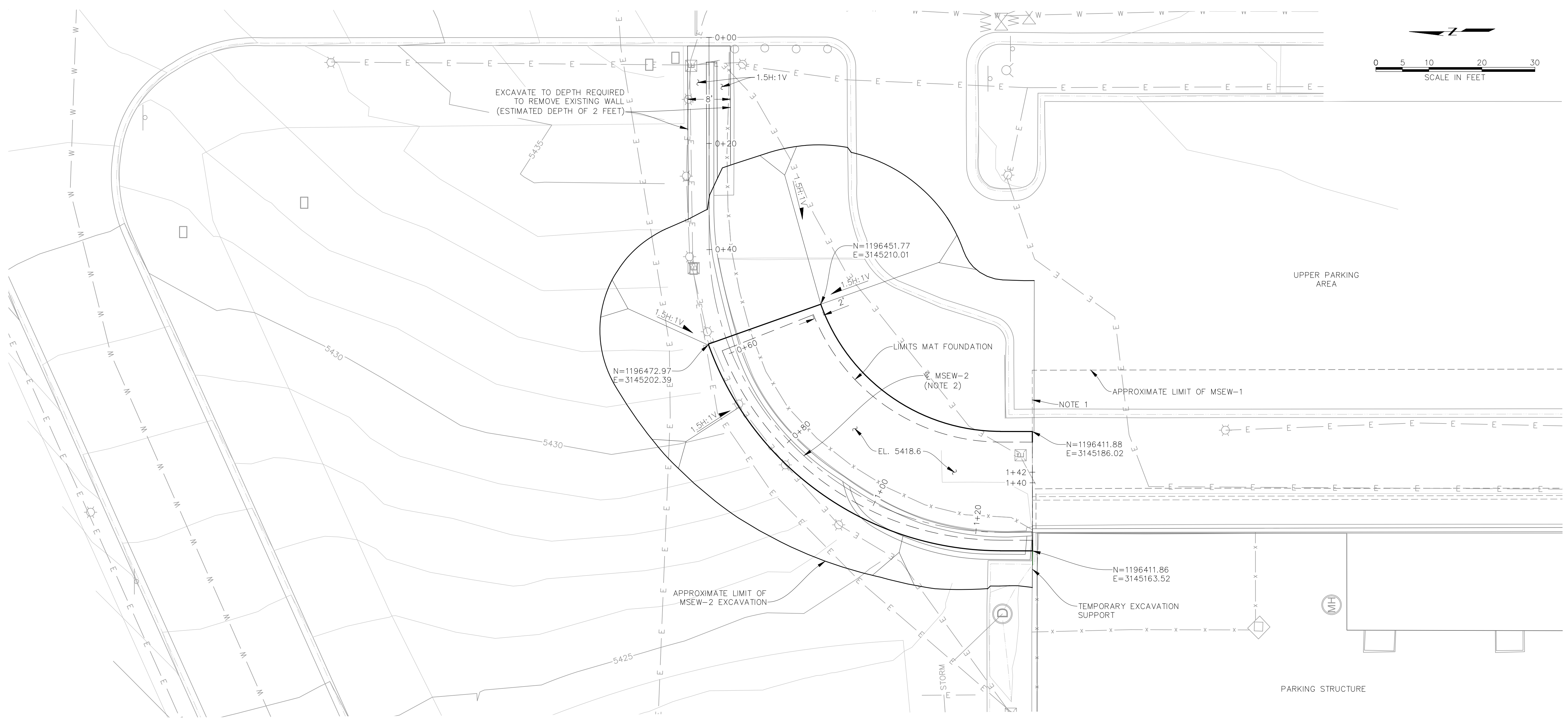


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 ackerman engineering, inc.			THORNTON JUSTICE CENTER PHASE III	ELECTRICAL DETAILS & DIAGRAMS	DWG. NO. E-04
					RJH PROJECT 21129



MSEW-2 ALIGNMENT INFORMATION (NOTE 2)

Number	Length	Radius	Line/Chord Direction	Delta Angle	Start Northing	Start Easting
1	38.32		S89° 57' 56.02"W		1196472.86	3145260.31
2	86.26	55.000		89.86	1196472.84	3145222.00
3	6.09		S0° 06' 05.11"W		1196417.94	3145167.03
4	11.33		N89° 55' 49.19"E		1196411.85	3145167.02

- NOTES:
- MSEW-1 IS SUPPORTED BY A WIRE BASKET FACE EXTENDING EAST-WEST ALONG THE NORTH WALL LIMITS. THE CONDITION OF THE BASKET FACING IS UNKNOWN. TEMPORARY SHORING WILL BE REQUIRED ALONG THE FACE TO PREVENT DAMAGE TO MSEW-1.
 - CENTERLINE IS AT FACE OF NEW MSEW-2 CMU BLOCK AT BASE COURSE.

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NO.	DATE	ISSUE/REVISION	DES	DRN	CHK	APP



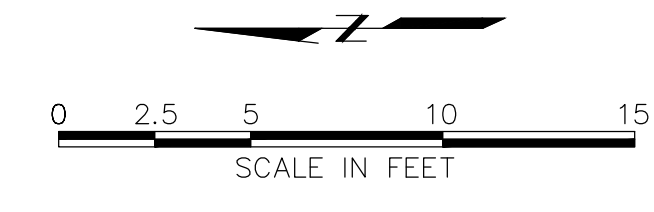
City of Thornton

THORNTON JUSTICE CENTER
PHASE III

MSEW-2 EXCAVATION PLAN

RJH PROJECT 21129

DWG. NO.
F-01
SHEET NO.
31 of 46



MSEW-2 POINT TABLE		
DESCRIPTION	NORTHING	EASTING
PT A	1196454.77	3145204.22
PT B	1196451.80	3145199.05
PT C	1196448.11	3145194.37
PT D	1196443.78	3145190.28
PT E	1196438.90	3145186.85
PT F	1196433.58	3145184.17
PT G	1196427.93	3145182.29
PT H	1196422.06	3145181.25
PT I	1196415.49	3145181.03
PT J	1196415.51	3145168.53
PT K	1196423.35	3145168.81
PT L	1196431.01	3145170.18
PT M	1196438.38	3145172.63
PT N	1196445.33	3145176.13
PT O	1196451.69	3145180.60
PT P	1196457.34	3145185.94
PT Q	1196462.15	3145192.05
PT R	1196466.03	3145198.79
PT S	1196453.18	3145208.05
PT T	1196411.87	3145184.02
PT U	1196411.85	3145165.52
PT V	1196470.33	3145201.27

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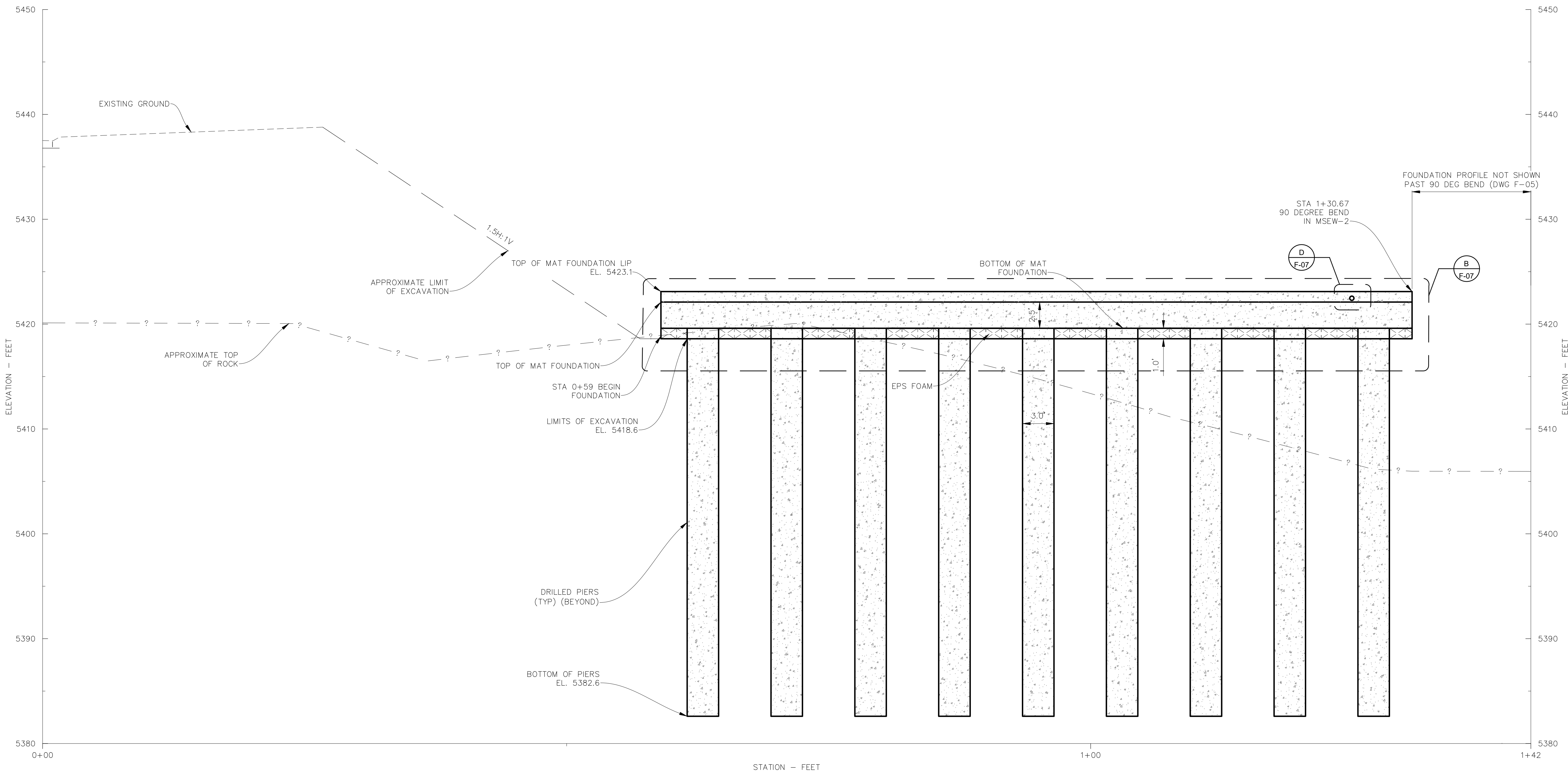


RJH PROJECT 21129

THORNTON JUSTICE CENTER
PHASE III

MSEW-2 FOUNDATION PLAN

DWG. NO.
F-02
SHEET NO.
32 of 46



PROFILE
MSEW-2 FOUNDATION



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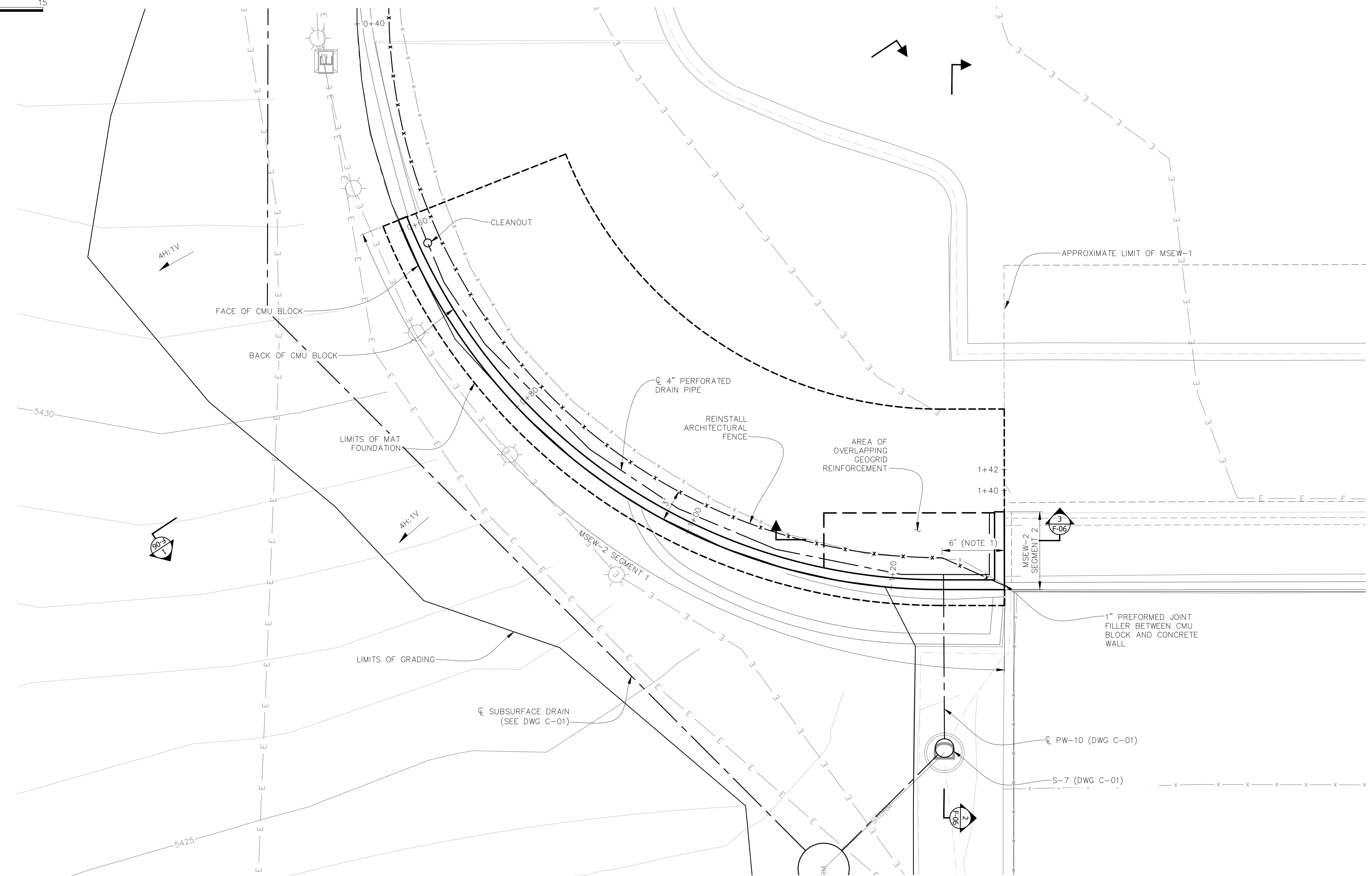
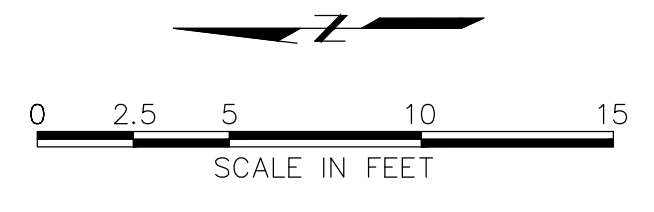


RJH PROJECT 21129

THORNTON JUSTICE CENTER
PHASE III

MSEW-2 FOUNDATION
PROFILE

DWG. NO.
F-03
SHEET NO.
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NOTES:
1. TRANSITION FENCE TO MEET EXISTING BRICK.

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NO.	DATE	ISSUE/REVISION	DES	DRN	CHK	APP



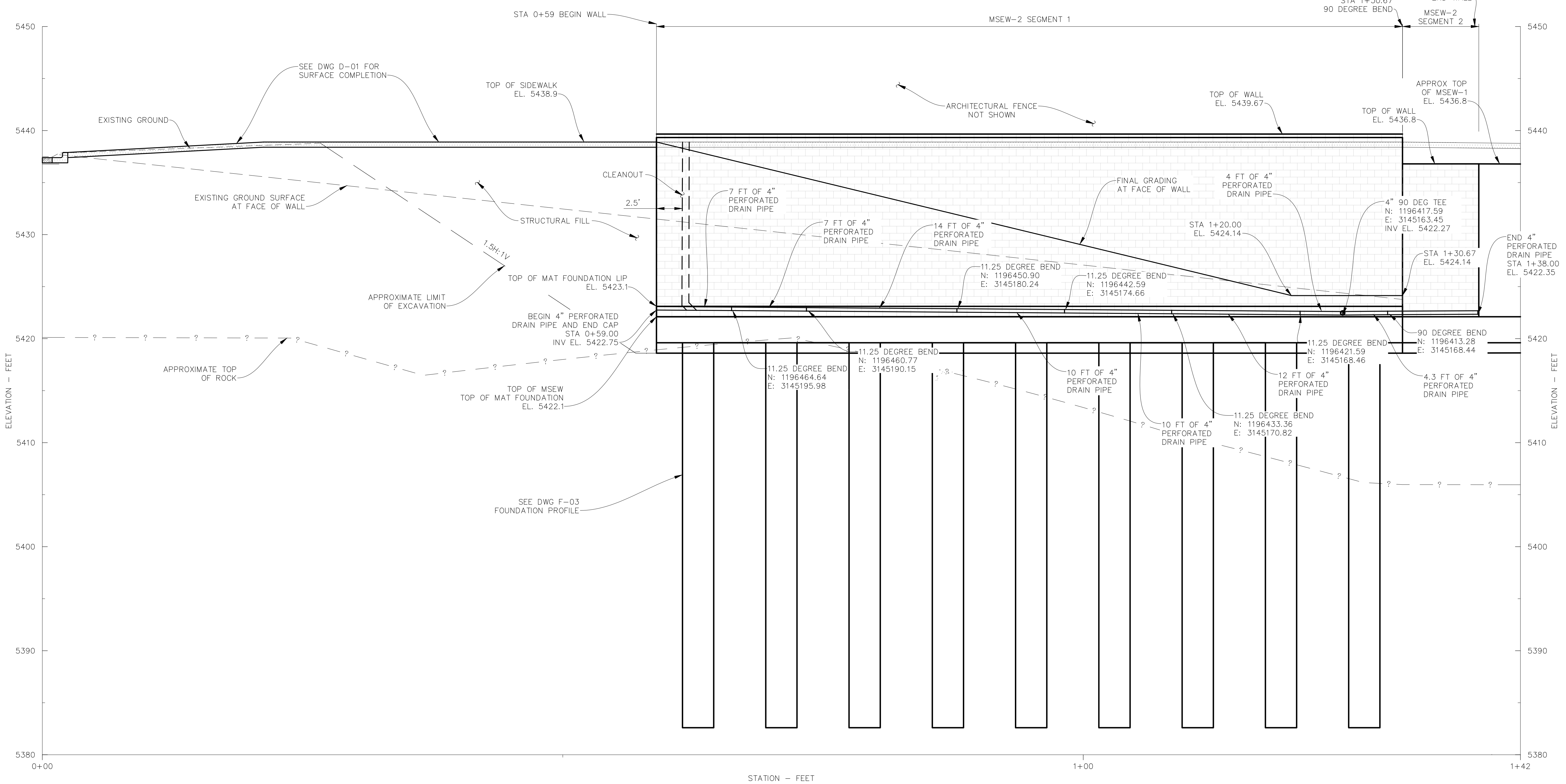
THORNTON JUSTICE CENTER
PHASE III

MSEW-2 WALL
RECONSTRUCTION PLAN

DWG. NO.
F-04
SHEET NO.
34 of 46

RJH PROJECT 21129

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PROFILE
MSEW-2 WALL ALIGNMENT



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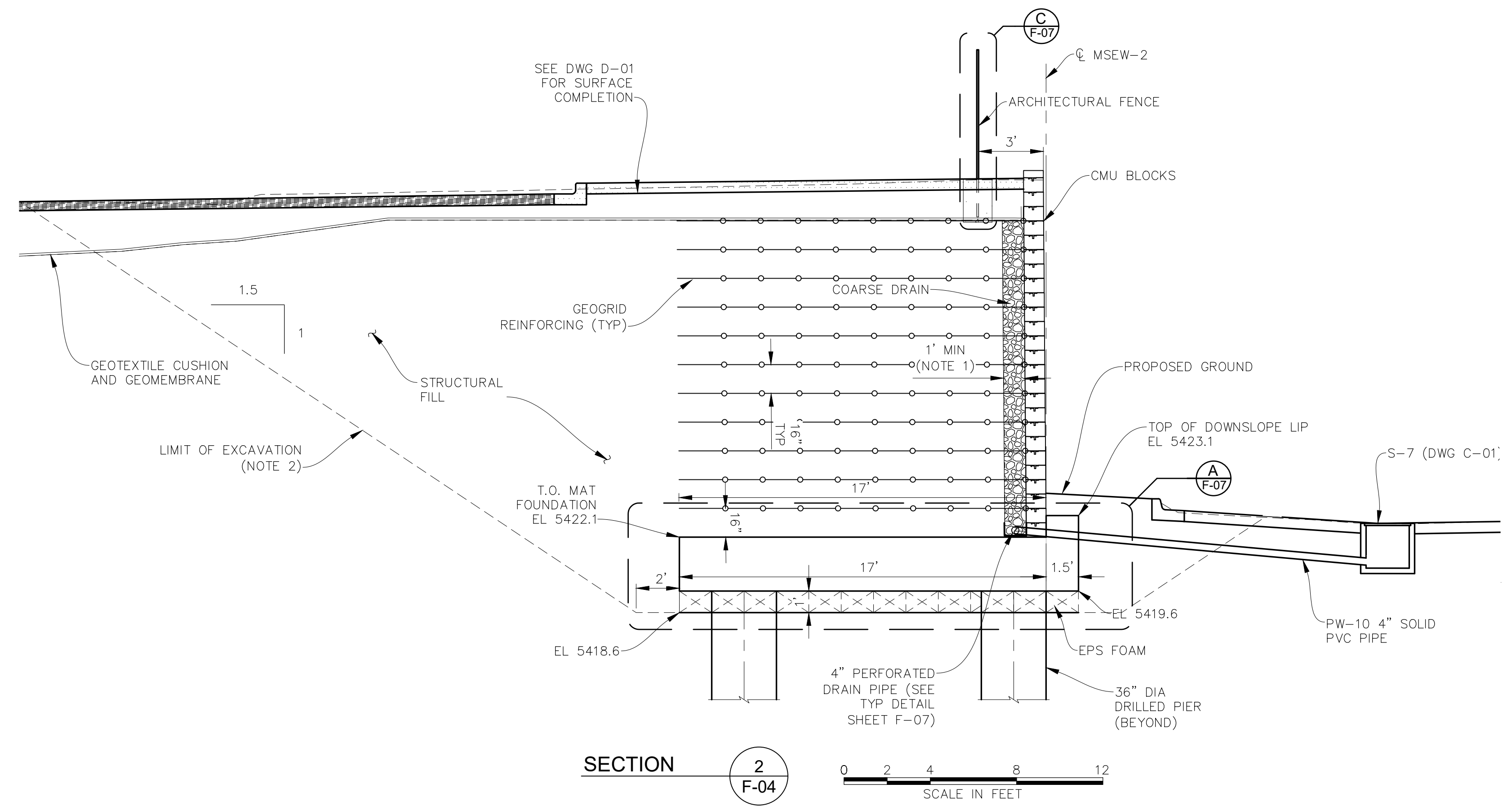
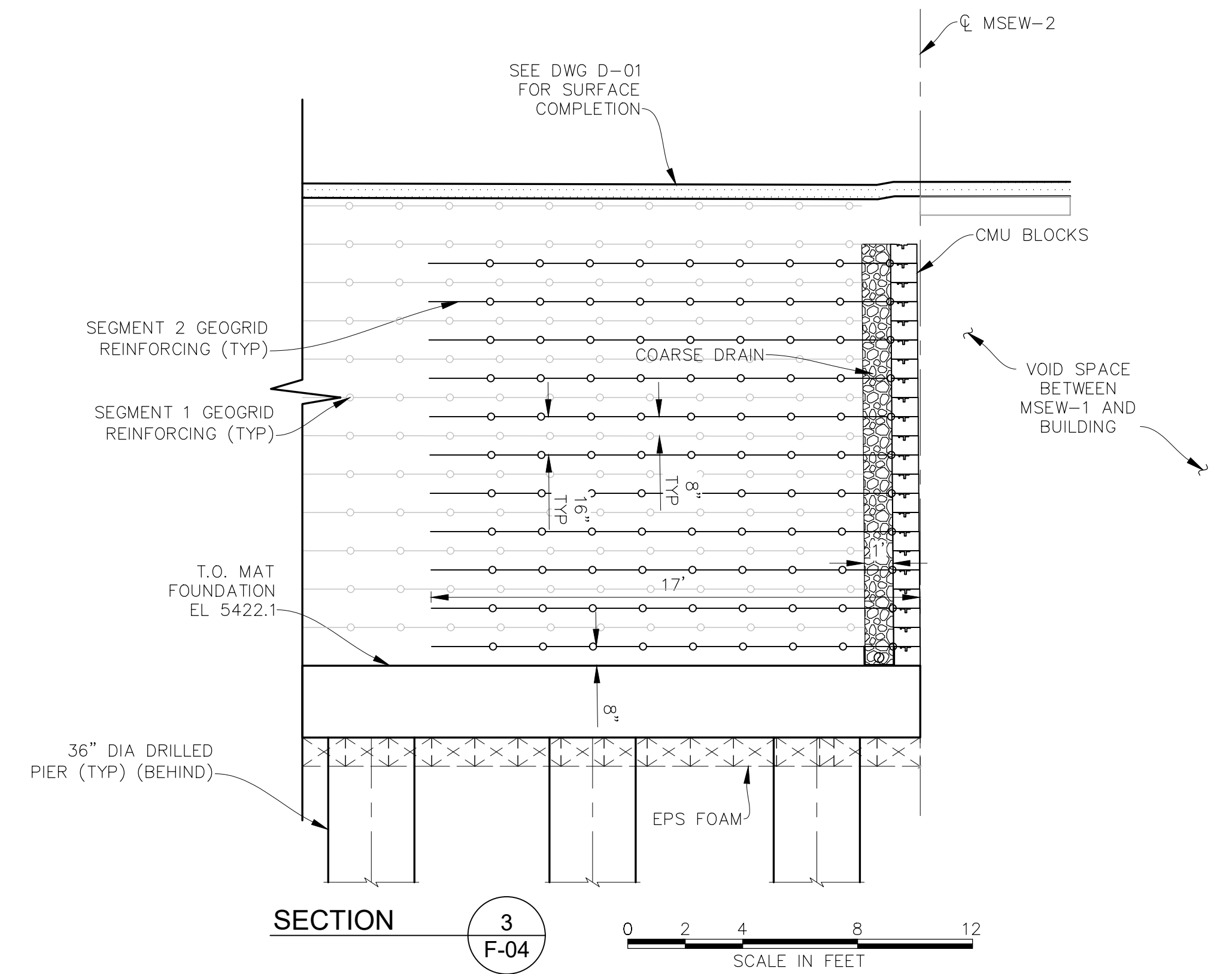
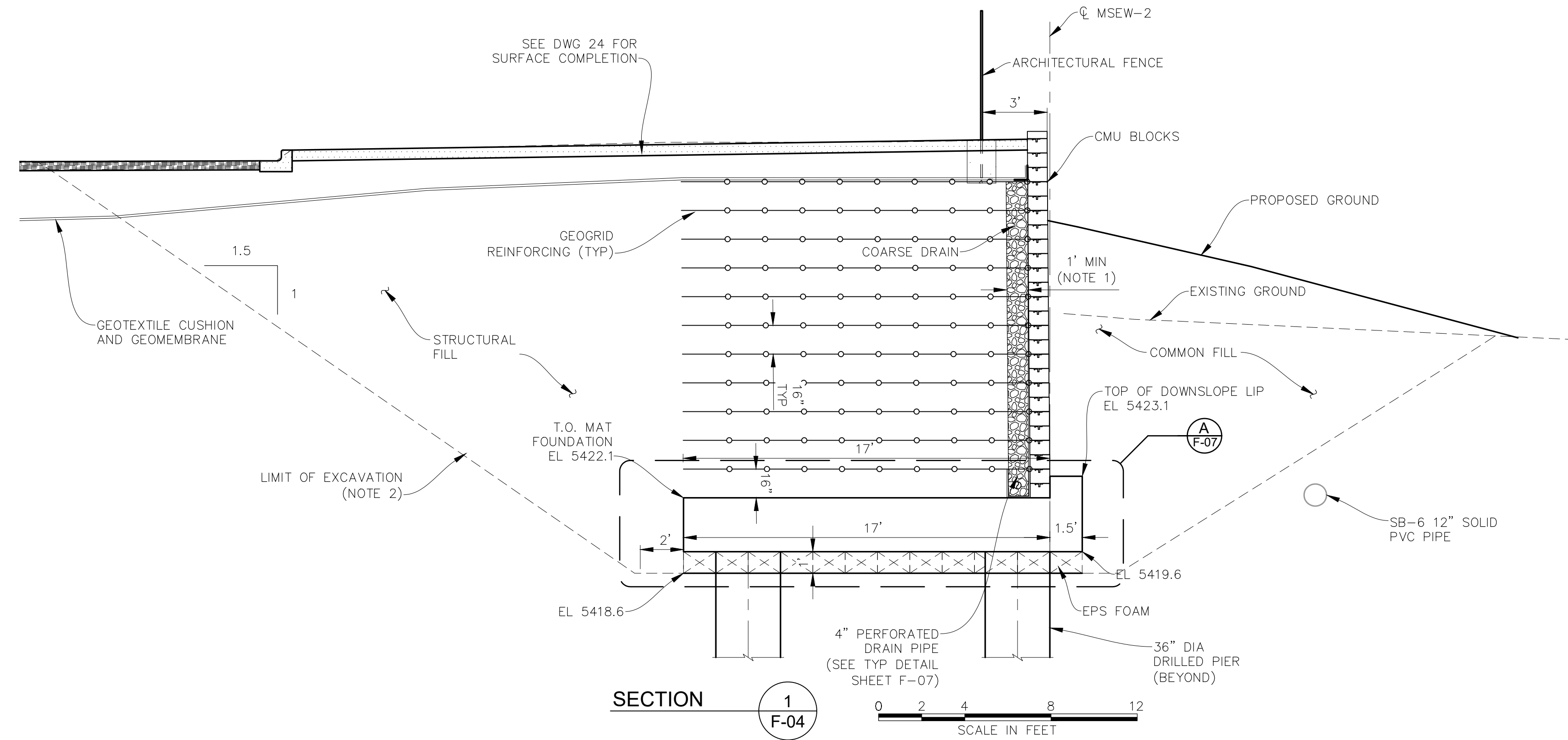


THORNTON JUSTICE CENTER
PHASE III

MSEW-2 WALL PROFILE

RJH PROJECT 21129

DWG. NO.
F-05
SHEET NO.
35 of 46



- NOTES:
1. WIDTH OF COARSE DRAIN VARIES. MAINTAIN MINIMUM OF 3" COARSE DRAIN ON BOTH SIDES OF 4" PIPE.
 2. LIMITS OF EXCAVATION FOR DRAINAGE FEATURES NOT SHOWN.

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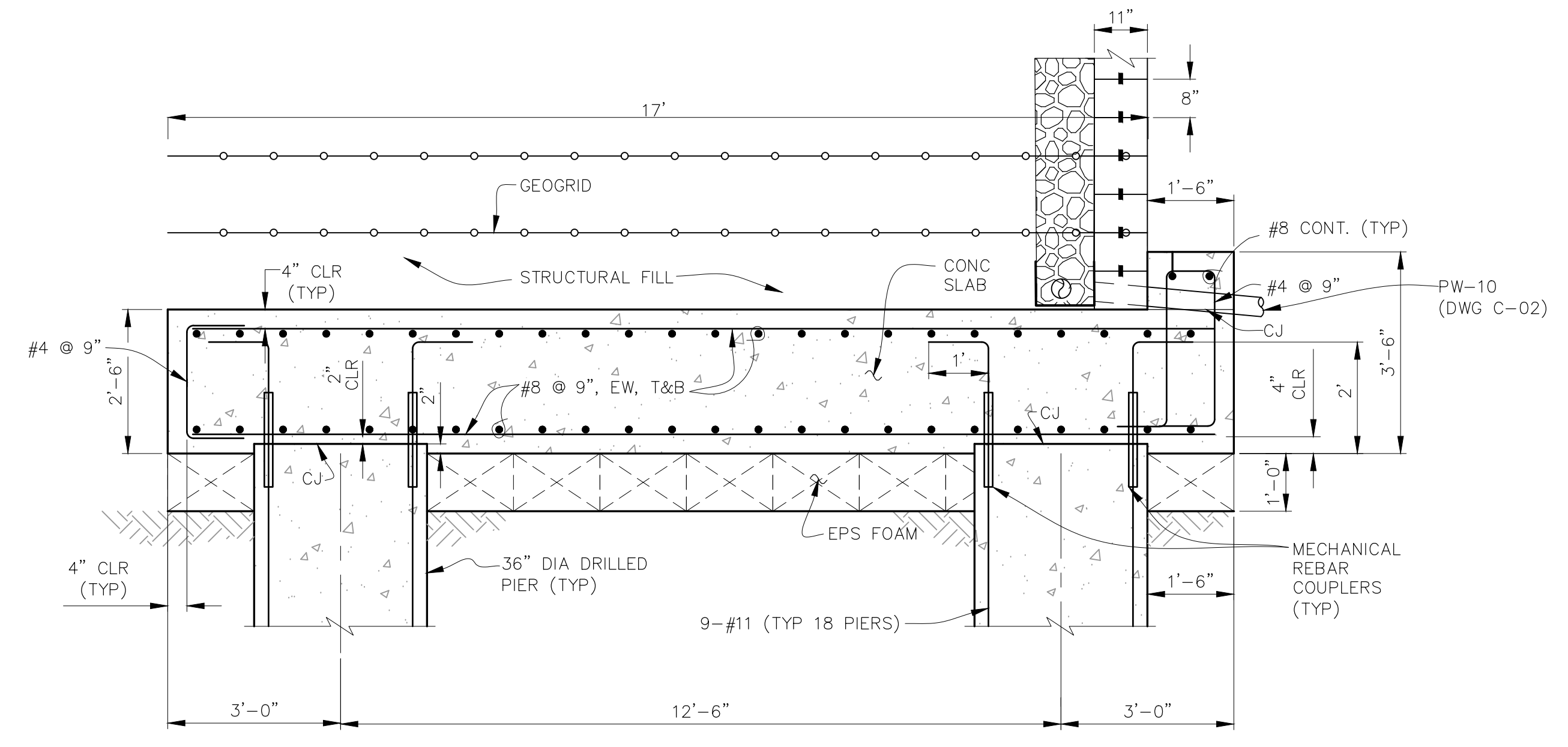


THORNTON JUSTICE CENTER
PHASE III

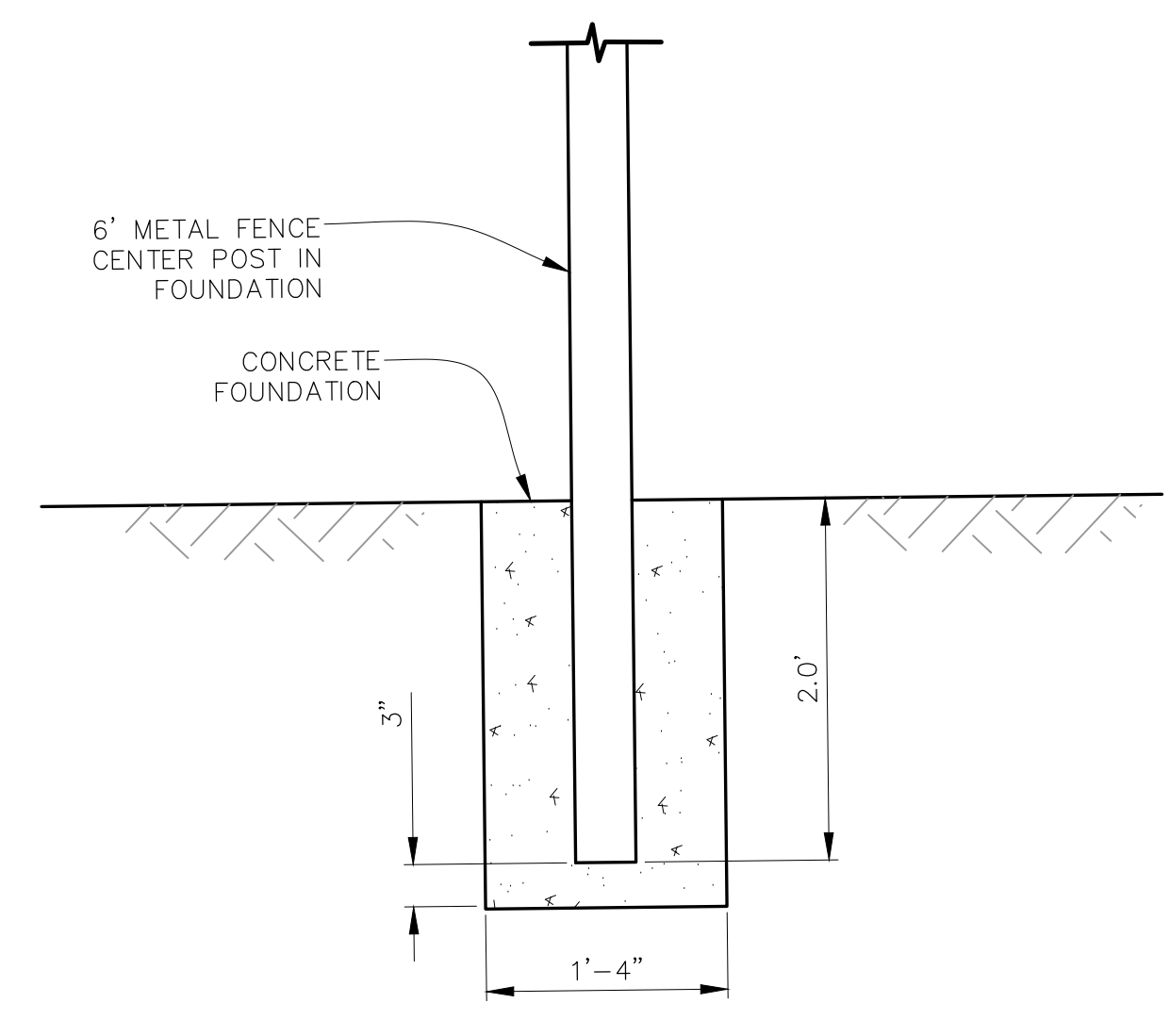
MSEW-2 SECTIONS

DWG. NO.
F-06
SHEET NO.
36 of 46

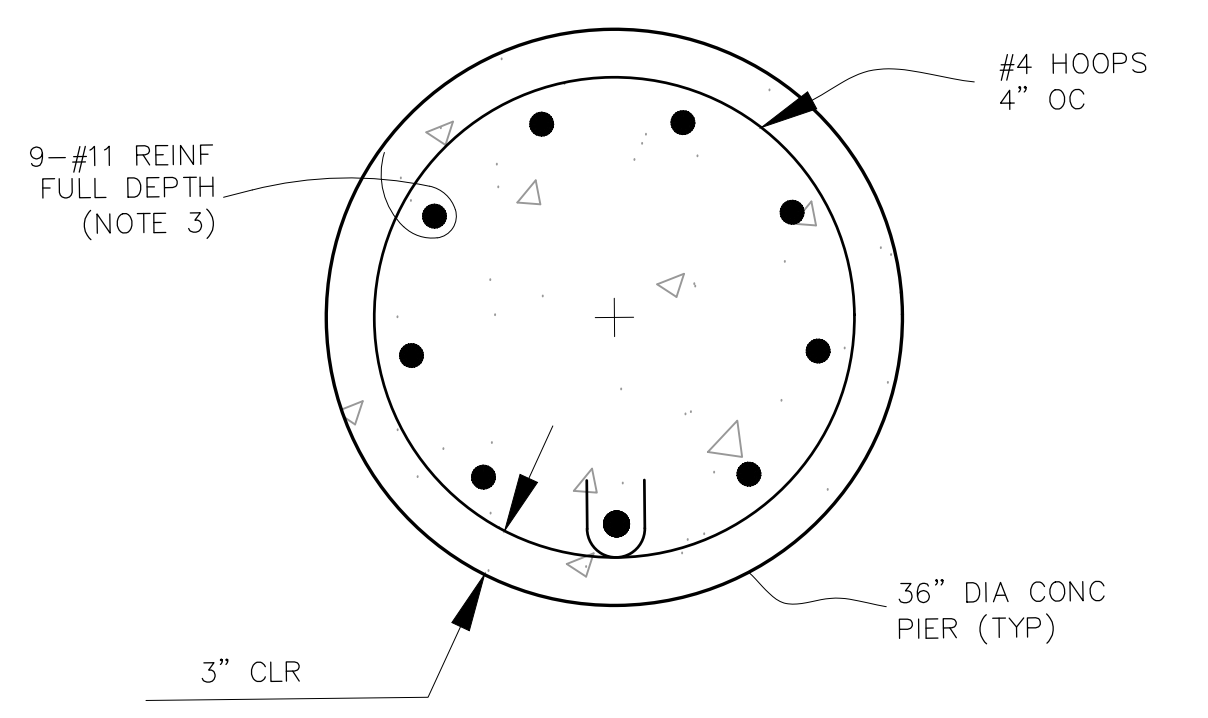
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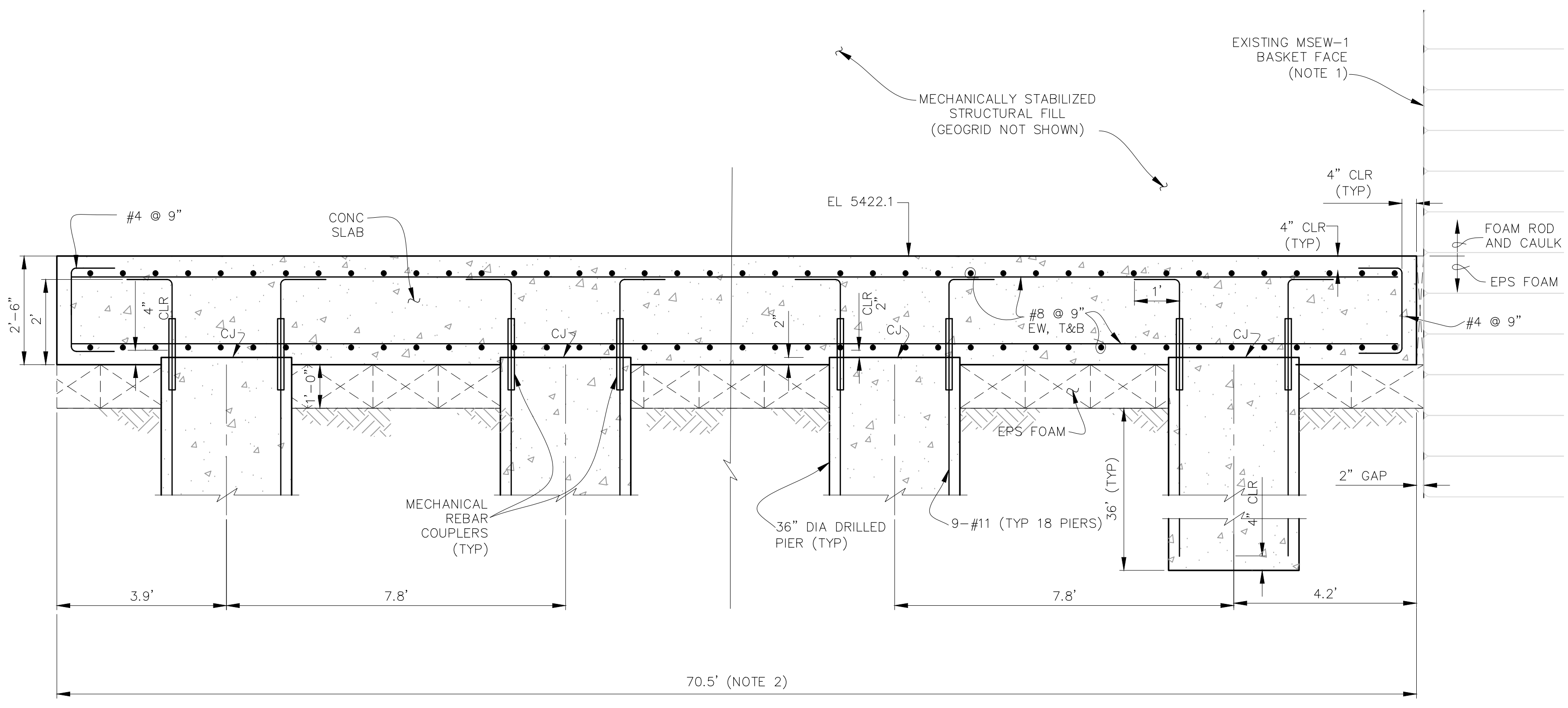
DETAIL A
F-06
SCALE IN FEET



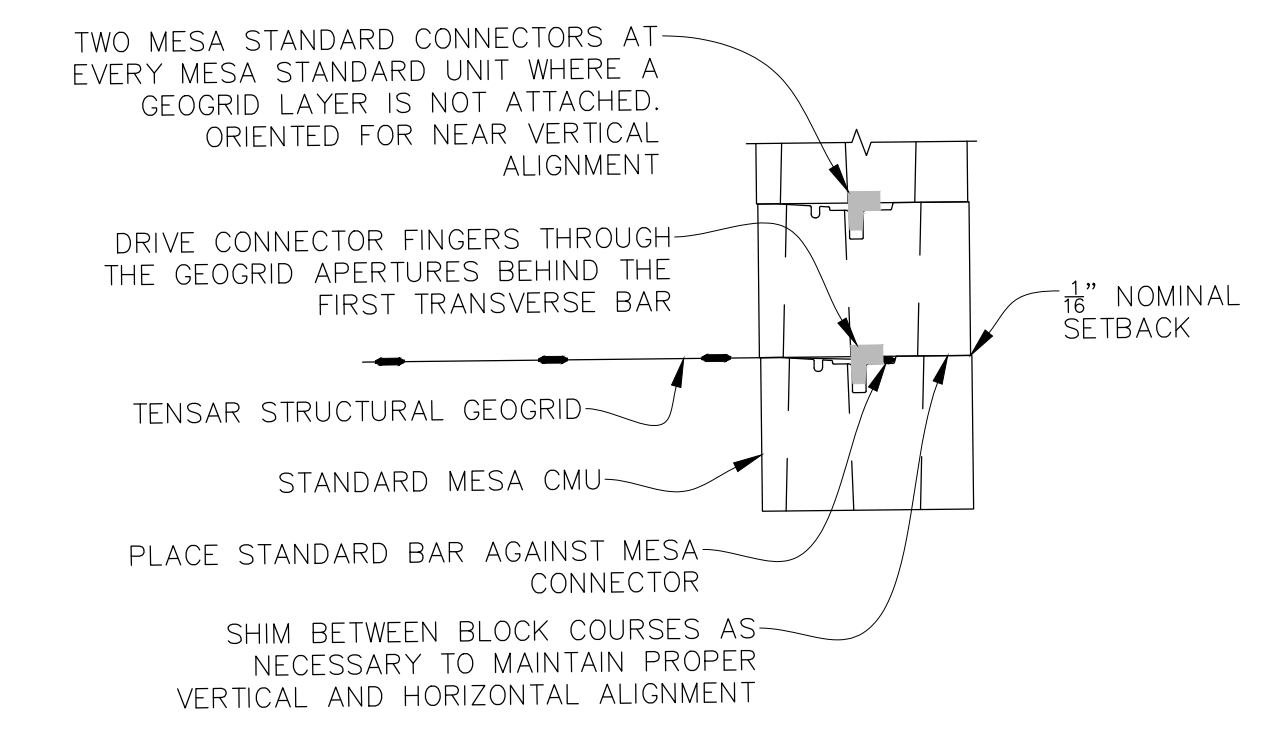
DETAIL C
F-06
SCALE IN FEET



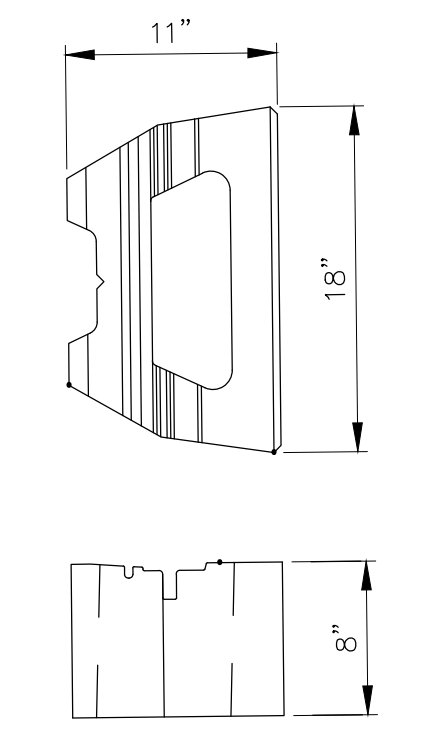
TYPICAL DETAIL
DRILLED PIER
SCALE IN FEET



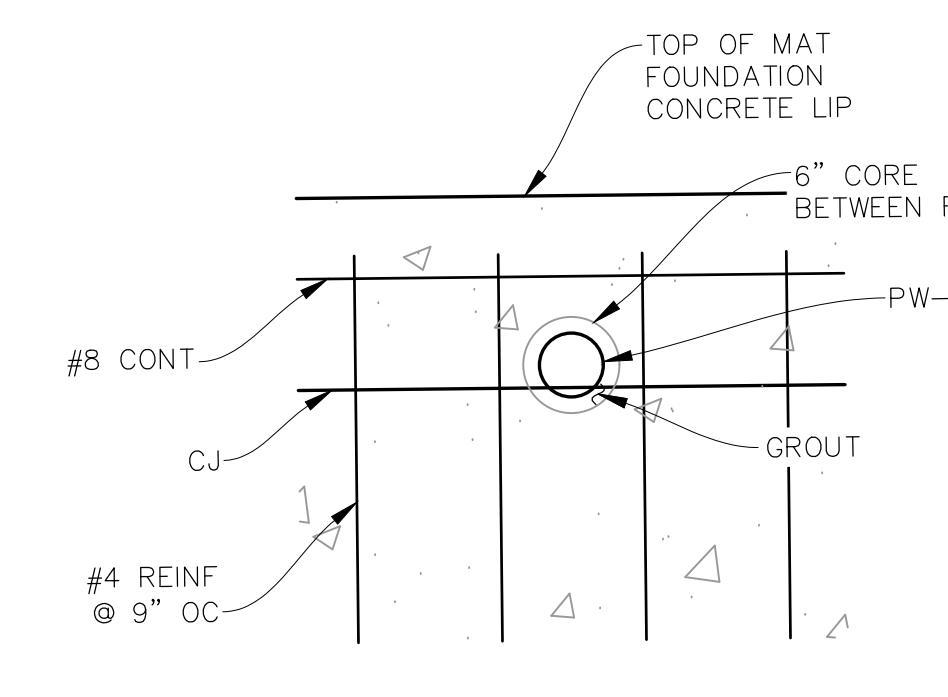
DETAIL B
F-03
SCALE IN FEET



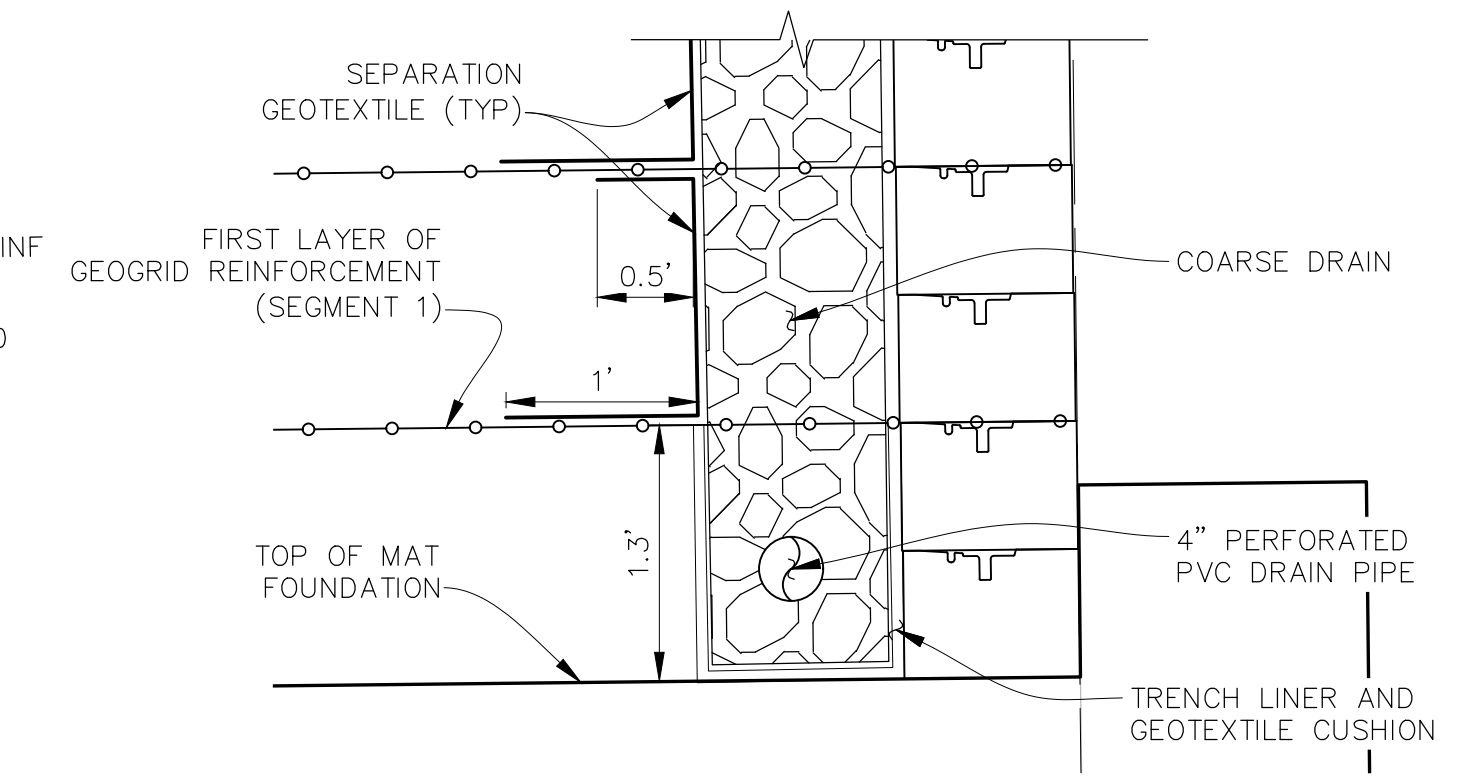
TYPICAL DETAIL
STANDARD MESA CMU AND GEOGRID CONNECTION DETAIL
NOT TO SCALE



TYPICAL DETAIL
STANDARD MESA CMU
NOT TO SCALE



DETAIL D
F-03
SCALE IN FEET



TYPICAL DETAIL
MSEW-2 SUBSURFACE DRAIN
SCALE IN FEET

- NOTES:
- MSEW-1 IS SUPPORTED BY A WIRE BASKET FACE EXTENDING EAST-WEST ALONG THE WALL LIMITS. THE CONDITION OF THE BASKET FACING IS UNKNOWN. TEMPORARY SHORING WILL BE REQUIRED ALONG THE FACE TO PREVENT DAMAGE TO MSEW-1.
 - DIMENSIONS ARE SHOWN ALONG CENTERLINE OF DOWNSLOPE PIER ALIGNMENT.
 - STAGGER SPLICES EVERY OTHER BAR. SPLICES FOR #11 VERTICAL STEEL IN PIERS SHALL BE 6'-6".

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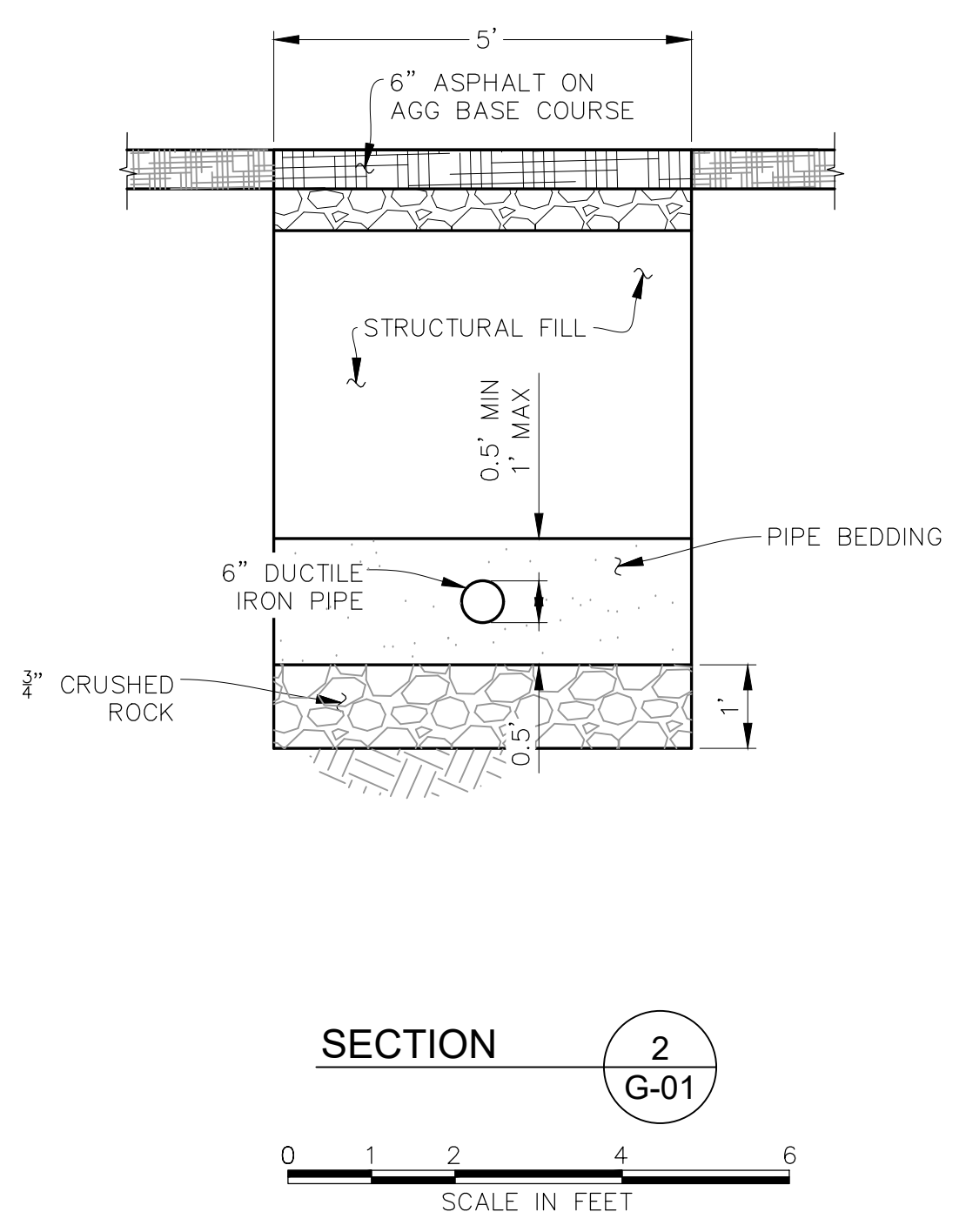
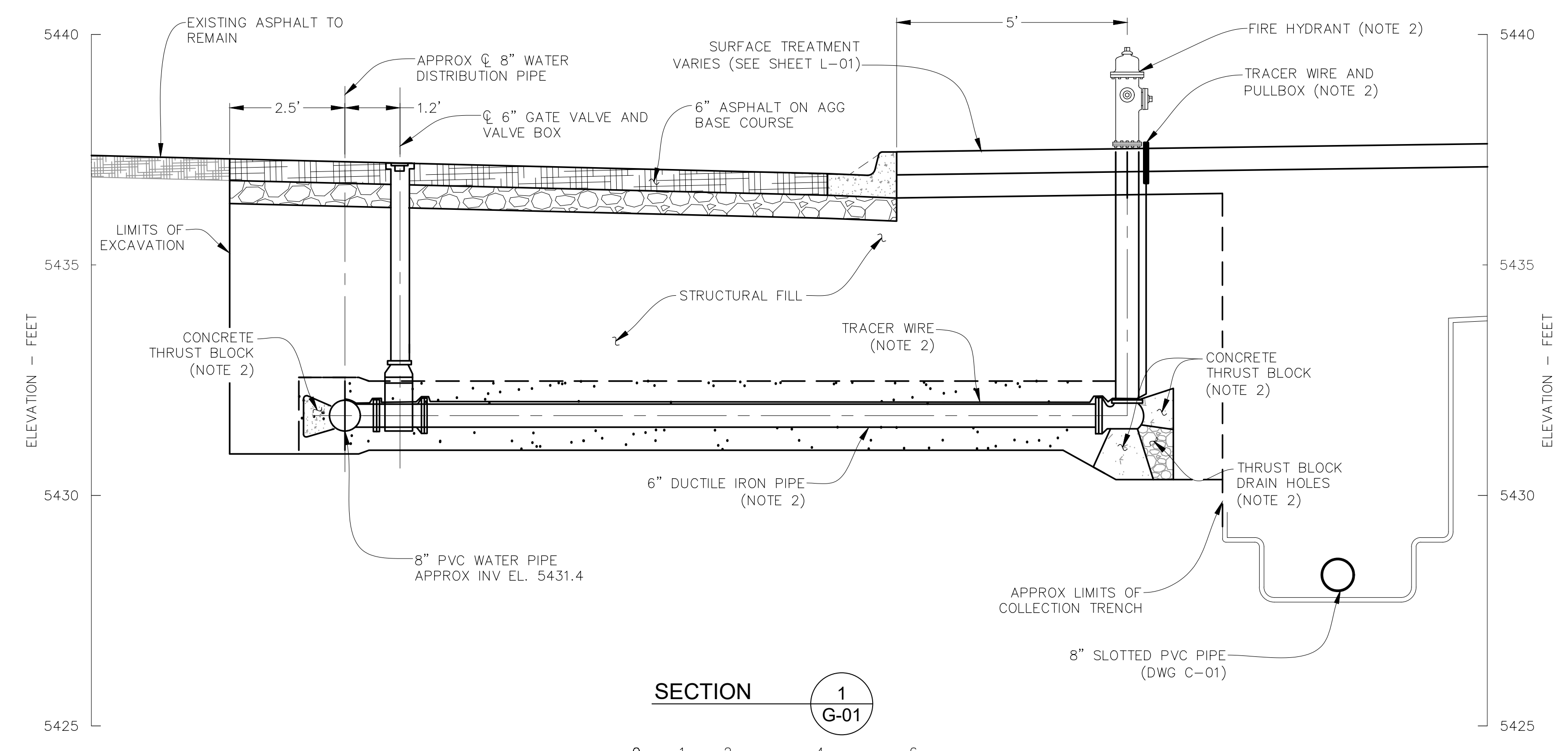
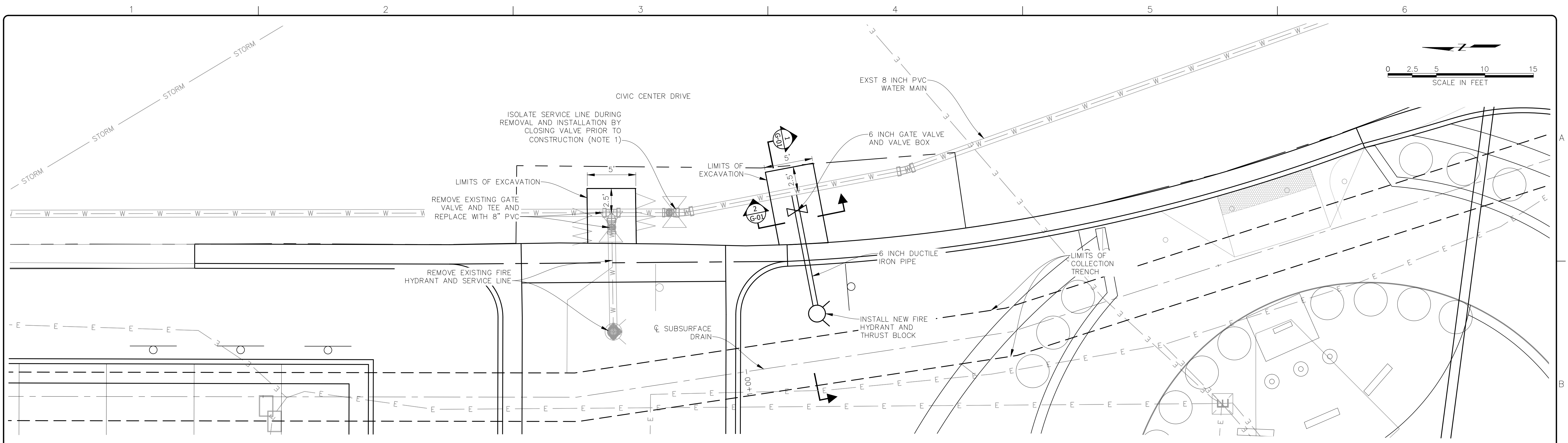


THORNTON JUSTICE CENTER
PHASE III

MSEW-2 DETAILS

DWG. NO.
F-07
SHEET NO.
37 of 46

RJH PROJECT 21129



- NOTES:
1. UPSTREAM AND DOWNSTREAM VALVES ARE OUTSIDE THE PAGE. USE VALVES TO ISOLATE CONSTRUCTION AREA PRIOR TO COMMENCEMENT OF CONSTRUCTION. COORDINATE WITH THORNTON PRIOR TO START OF WORK TO DEVELOP ISOLATION PLAN.
 2. SEE DETAILS ON SHEET G-02.

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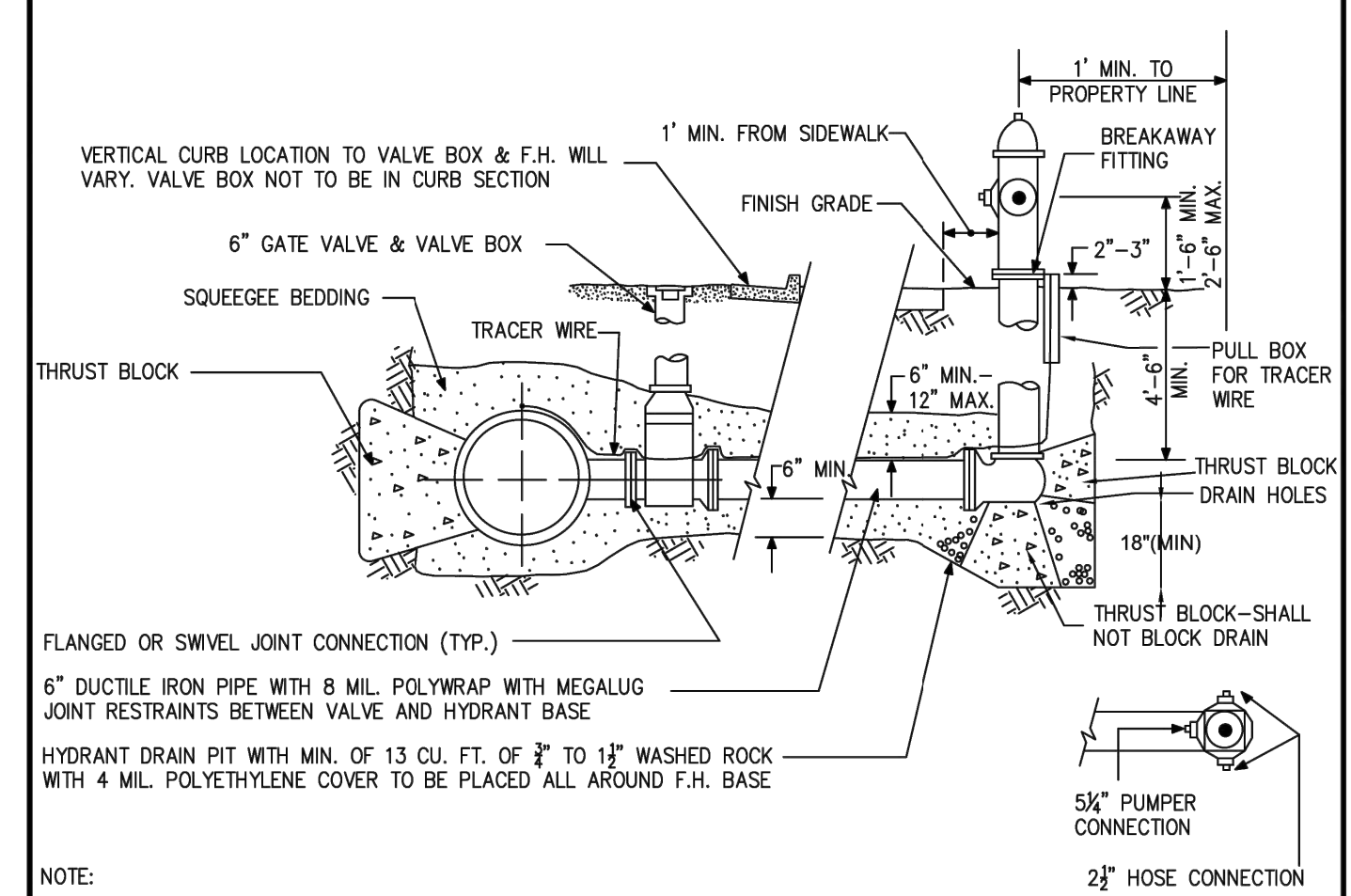
THORNTON JUSTICE CENTER PHASE III

FIRE HYDRANT RELOCATION PLAN AND SECTION

DWG. NO. **G-01**
SHEET NO. 38 of 46

RJH PROJECT 21129

FIRE HYDRANT ASSEMBLY



NOTE:

FIRE HYDRANTS SHALL BE LIMITED TO THE FOLLOWING MANUFACTURERS ONLY:

- MUELLER COMPANY 5-1/4 SUPER CENTURION
- WATEROUS COMPANY (1) MODEL W8-250-PACER

SHOE AND BARREL SHALL BE CONNECTED WITH HIGH STRENGTH STAINLESS BOLTS AND NUTS

HYDRANT SHALL HAVE A FIVE (5) FOOT CLEAR ZONE ON EACH SIDE OF HYDRANT (TEN (10) FOOT EASEMENT AROUND).

MINIMUM DISTANCE FROM DRIVEWAYS SHALL BE SIX (6) FEET.

HYDRANTS SHALL CONFORM TO AND BE TESTED IN ACCORDANCE WITH AWWA SPECIFICATION C-502.

HYDRANTS SHALL BE MADE OF CAST IRON WITH FULL BRONZE MOUNTINGS.

INLET SHALL FIT SIX (6) INCH PIPE WITH BARREL LENGTH SUFFICIENT FOR A FIVE (5) FOOT TRENCH.

ONLY TWO (2) HEIGHT EXTENSIONS MAY BE USED PER HYDRANT.

HYDRANT BASES SHOULD NOT BE ANY DEEPER THAN SIX (6) FEET FROM THE TOP OF FINISHED GRADE.

MAIN VALVE OPENING IN THE HYDRANT SHALL BE NO LESS THAN FIVE (5) INCHES IN DIAMETER.

THREADS ON NOZZLES SHALL BE NATIONAL STANDARD.

OPERATING NUT & NOZZLE COVERS SHALL BE NATIONAL STANDARD PENTAGON MEASURING ONE AND ONE-HALF (1 1/2) INCHES FROM POINT TO OPPOSITE FLAT AND SHALL OPEN CLOCKWISE.

HYDRANTS SHALL BE PLUMBED VERTICALLY WITH PUMPER NOZZLE FACING STREET.

NO WATER SERVICE MAIN TAPS SHALL BE MADE TO A DISTRIBUTION MAIN WITHIN FIVE (5) FEET OF A FIRE HYDRANT BRANCH MAIN.

NO HORIZONTAL BENDS OR OFFSETS SHALL BE USED IN INSTALLING FIRE HYDRANT BRANCH MAINS.

EACH HYDRANT SHALL BE PAINTED WITH OSHA ENAMEL, SAFETY YELLOW, OR AN APPROVED EQUIVALENT.

FIRE HYDRANT ASSEMBLIES SHALL BE MEGALUGGED IN ACCORDANCE WITH SUBSECTION 204.1 (N)

N.T.S.

	CITY OF THORNTON, COLORADO STANDARDS & SPECIFICATIONS FIRE HYDRANT ASSEMBLY DETAIL	ISSUED: APRIL 1992
		REVISED: APRIL 2010
		DRAWING NO. 200-10

THRUST BLOCKS SHALL BE CONSTRUCTED AT BENDS AND FITTINGS WHICH RESULT IN UNBALANCED LINE THRUST. CARE SHALL BE TAKEN NOT TO BLOCK OUTLETS OR TO COVER BOLTS, NUTS, CLAMPS OR OTHER FITTINGS OR TO MAKE THEM INACCESSIBLE.

A BOND BREAKER SHALL BE PLACED BETWEEN THE FITTING AND THE THRUST BLOCK TO AID IN EASE OF FUTURE REMOVAL.

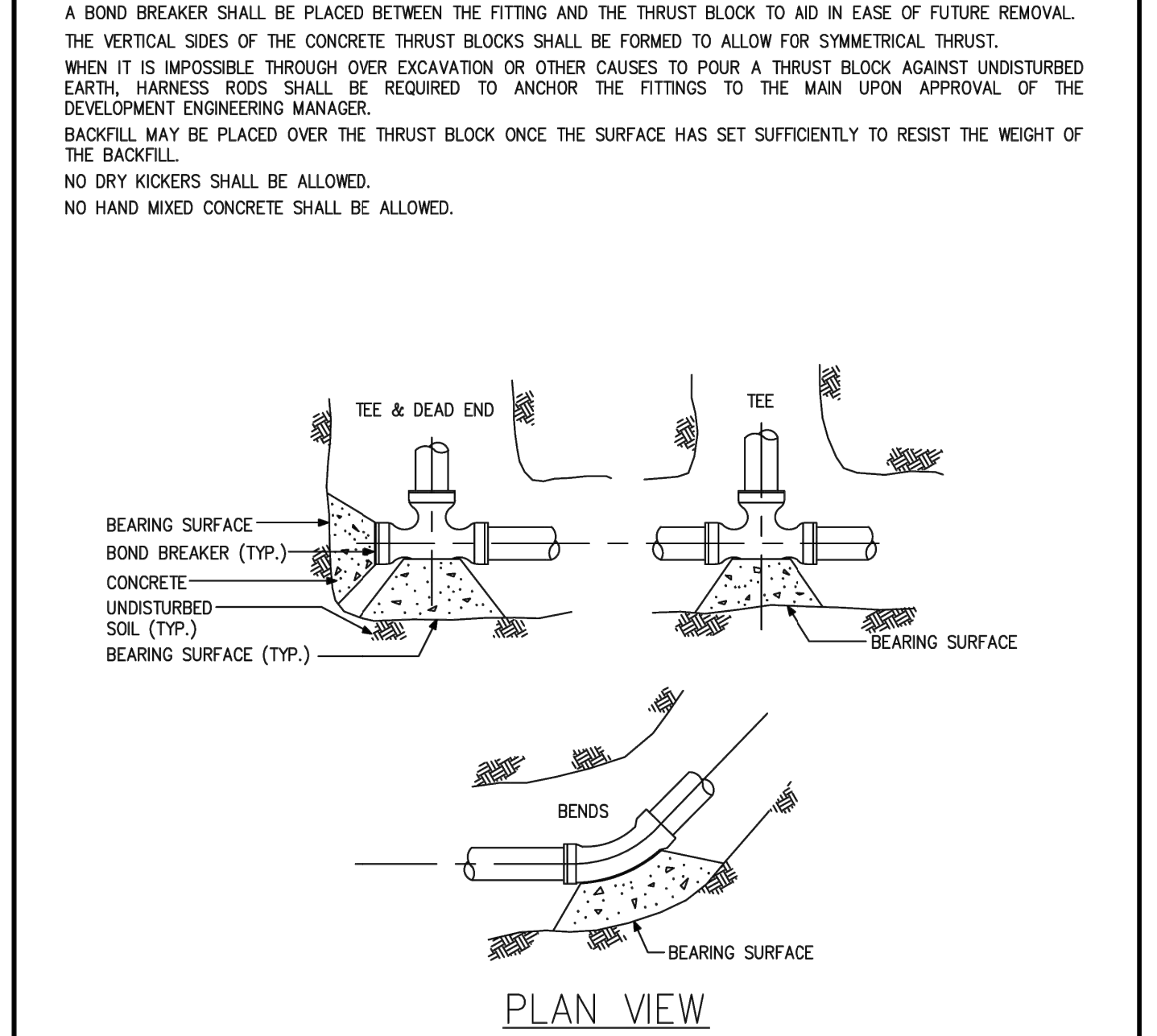
THE VERTICAL SIDES OF THE CONCRETE THRUST BLOCKS SHALL BE FORMED TO ALLOW FOR SYMMETRICAL THRUST.

WHEN IT IS IMPOSSIBLE THROUGH OVER EXCAVATION OR OTHER CAUSES TO POUR A THRUST BLOCK AGAINST UNDISTURBED EARTH, HARNESS RODS SHALL BE REQUIRED TO ANCHOR THE FITTINGS TO THE MAIN UPON APPROVAL OF THE DEVELOPMENT ENGINEERING MANAGER.

BACKFILL MAY BE PLACED OVER THE THRUST BLOCK ONCE THE SURFACE HAS SET SUFFICIENTLY TO RESIST THE WEIGHT OF THE BACKFILL.

NO DRY KICKERS SHALL BE ALLOWED.

NO HAND MIXED CONCRETE SHALL BE ALLOWED.



NOTES:

- THRUST BLOCKS MUST BE CAST IN PLACE CONCRETE.
- NO TAMPING OR COMPACTING SHALL BE ALLOWED ABOVE THRUST BLOCK FOR A MINIMUM OF TWENTY-FOUR (24) HOURS AFTER PLACEMENT.
- CONCRETE MUST SET A MINIMUM OF FORTY-EIGHT (48) HOURS PRIOR TO THE PERFORMANCE OF A HYDROSTATIC TEST.
- BEARING SURFACE BASED ON BEARING STRENGTH OF 3000 P.S.F. AND MAIN PRESSURE OF 200 P.S.I. FOR MAINS GREATER THAN 16" OR VERTICAL THRUSTS, SHOW AREA REQUIREMENT ON STANDARD DETAILS.
- BOND BREAKER TO BE MINIMUM OF 8 MIL. POLYETHYLENE PLASTIC.

N.T.S.

	CITY OF THORNTON, COLORADO STANDARDS & SPECIFICATIONS THRUST BLOCK DETAIL	ISSUED: APRIL 1992
		REVISED: APRIL 2010
		DRAWING NO. 200-11

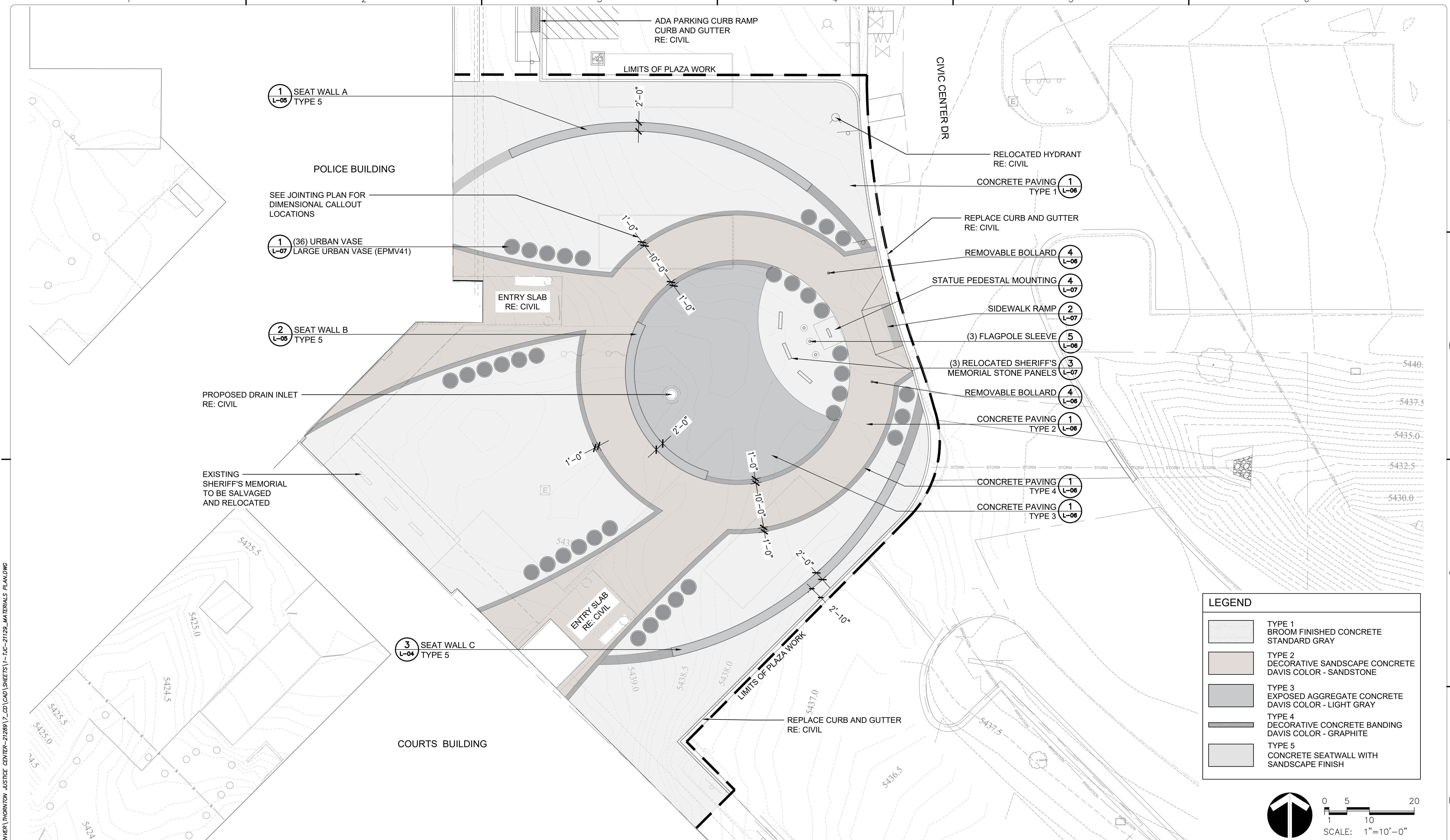
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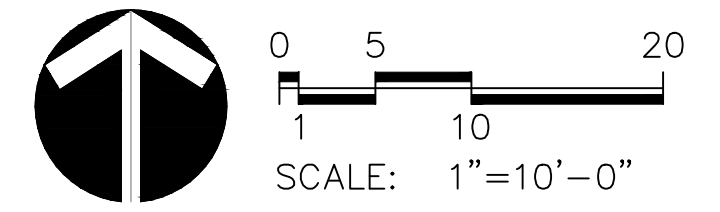
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RJH PROJECT 21129	THORNTON JUSTICE CENTER PHASE III	FIRE HYDRANT RELOCATION DETAILS	DWG. NO. G-02
			SHEET NO. 39 of 46



LEGEND	
	TYPE 1 BROOM FINISHED CONCRETE STANDARD GRAY
	TYPE 2 DECORATIVE SANDSCAPE CONCRETE DAVIS COLOR - SANDSTONE
	TYPE 3 EXPOSED AGGREGATE CONCRETE DAVIS COLOR - LIGHT GRAY
	TYPE 4 DECORATIVE CONCRETE BANDING DAVIS COLOR - GRAPHITE
	TYPE 5 CONCRETE SEATWALL WITH SANDSCAPE FINISH

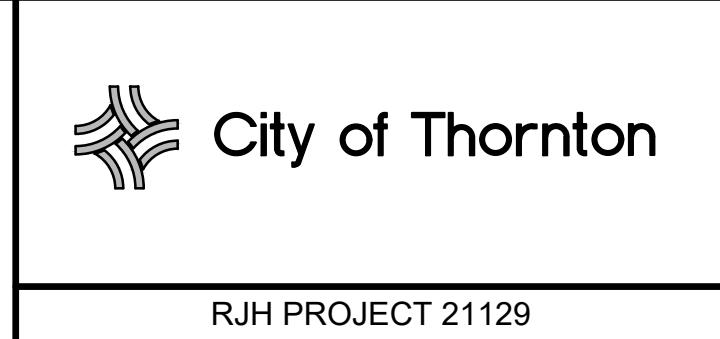


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1/17/2024



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THORNTON JUSTICE CENTER
PHASE III

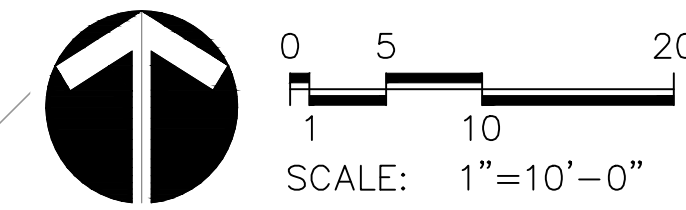
MEMORIAL PLAZA
MATERIALS PLAN

DWG. NO.
L-01
SHEET NO.
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SPOT ELEVATIONS					
POINT	NORTHING	EASTING	POINT	NORTHING	EASTING
P1:38.75	1196165.1211	3145174.3535	P57:38.10	1196079.2441	3145245.2148
P2:FL 38.00	1196166.6399	3145189.6542	P58:38.26	1196076.7017	3145240.3698
P3:TC 38.25	1196165.1002	3145205.5558	P59:38.42	1196074.8758	3145231.4498
P4:TC 38.09	1196165.0696	3145217.8224	P60:38.39	1196074.0713	3145208.4650
P5:TC 37.68	1196164.9972	3145246.7951	P61:38.35	1196080.6034	3145202.5722
P6:TC 37.58	1196164.9800	3145253.6133	P62:38.68	1196067.0635	3145205.3100
P7:FL 36.90	1196159.7032	3145259.6055	P63:38.86	1196065.7969	3145208.2458
P8:37.91	1196160.8405	3145228.0648	P64:38.73	1196060.2230	3145214.7793
P9:TC 38.50	1196165.1437	3145188.1479	P65:38.22	1196064.6215	3145233.0575
P10:38.97	1196154.9518	3145169.5234	P66:38.00	1196065.9563	3145242.9010
P11:38.77	1196149.1297	3145181.5460	P67:37.91	1196069.0492	3145250.5256
P12:FL 37.10	1196148.4702	3145260.3965	P68:PC 37.94	1196067.0510	3145267.5508
P13:FL 37.20	1196138.2219	3145261.4653	P69:38.16	1196077.4174	3145259.9681
P14:38.11	1196135.2356	3145224.5982	P70:TC 38.14	1196075.1349	3145272.9021
P15:37.99	1196133.0677	3145245.9713	P71:FL 37.64	1196074.2232	3145273.7509
P16:37.60	1196128.6627	3145262.1792	P72:TC 37.64	1196056.2685	3145256.7754
P17:37.30	1196127.8199	3145263.4881	P73:FL 37.17	1196054.8422	3145256.1823
P18:37.77	1196126.8265	3145256.2291	P74:TC 37.61	1196054.3430	3145254.8576
P19:38.00	1196123.7454	3145239.2781	P75:FL 37.54	1196048.3142	3145249.4956
P20:38.16	1196124.2602	3145226.1734	P76:38.61	1196055.9013	3145218.7952
P21:38.67	1196122.3794	3145204.1003	P77:39.04	1196055.4950	3145199.9137
P22:38.97	1196121.1531	3145192.7006	P78:39.01	1196051.3375	3145204.1211
P23:39.24	1196120.6946	3145175.4661	P79:38.95	1196046.4763	3145208.6291
P24:39.31	1196122.7685	3145169.6785	P80:39.28	1196052.3716	3145168.3508
P25:39.35	1196110.5067	3145161.1419	P81:39.26	1196044.8308	3145190.4808
P26:39.4	1196112.4825	3145176.6477	P82:39.28	1196040.7012	3145194.5746
P27:39.01	1196111.2475	3145192.5170	P83:39.26	1196036.6979	3145198.1288
P28:38.68	1196108.9562	3145197.7169	P84:38.86	1196035.5216	3145216.2382
P29:38.45	1196110.7364	3145210.3957	P85:38.62	1196037.9985	3145217.5535
P30:38.31	1196120.9239	3145216.9196	P86:37.75	1196040.4918	3145240.8478
P31:TC 37.89	1196121.6684	3145264.5320	P87:37.9	1196036.6033	3145238.5117
P32:TC 38.02	1196118.2921	3145265.2276	P88:TC 37.95	1196034.4145	3145235.0486
P33:FL 37.39	1196121.7507	3145265.0269	P89:FL 37.4	1196032.6804	3145235.3266
P34:FL 37.52	1196118.0370	3145265.9023	P90:39.17	1196030.7690	3145206.3869
P35:FL 37.48	1196115.9927	3145266.5725	P91:39.36	1196029.2421	3145193.2634
P36:37.98	1196114.0919	3145259.8355	P92:39.37	1196022.4805	3145199.2063
P37:FL 37.63	1196106.4355	3145269.4693	P93:39.1	1196024.5712	3145212.5445
P38:38.13	1196104.2281	3145262.9242	P94:38.88	1196028.5083	3145214.7807
P39:HP 38.16	1196108.7940	3145253.1236	P95:38.58	1196026.0520	3145221.6785
P40:HP 38.48	1196103.6618	3145241.4746	P96:38.22	1196026.6992	3145227.9857
P41:38.21	1196099.4638	3145207.8872	P97:TC 38.44	1196024.7374	3145225.3281
P42:38.52	1196100.7366	3145196.4898	P98:FL 37.5	1196022.7423	3145225.4628
P43:38.35	1196091.7428	3145197.7358	P99:TC 38.6	1196019.9254	3145220.5283
P44:38.17	1196093.0616	3145209.3520	P100:FL 37.5	1196018.0995	3145220.8260
P45:37.99	1196095.4078	3145217.4929	P101:38.63	1196018.0845	3145218.7303
P46:38.32	1196090.3123	3145240.0020	P102:39.3	1196018.3676	3145203.4379
P47:HP 38.35	1196097.8994	3145249.1809	P103:38.84	1196010.3261	3145211.4320
P48:TC 38.23	1196100.8295	3145270.4856	P104:38.13	1196002.8319	3145219.3246
P49:38.41	1196089.5375	3145254.6393	P105:38.00	1195998.8099	3145222.9578
P50:TC 38.30	1196095.8836	3145272.8578	P106:37.49	1195992.1403	3145230.1070
P51:FL 37.72	1196100.5503	3145271.2968	P107:37.84	1195987.7216	3145234.2556
P52:FL 37.80	1196095.9753	3145273.4250	P108:37.56	1195996.3453	3145245.5794
P53:FL 37.78	1196085.3015	3145275.7128	P109:37.28	1196002.7032	3145238.2753
P54:PC TC 38.27	1196091.4658	3145273.6445	P110:37.80	1196006.2885	3145230.4727
P55:FL 37.71	1196080.1587	3145274.9751	P111:39.34	1196084.6141	3145136.2819
P56:38.24	1196083.5059	3145250.2811			

LEGEND	
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
HP	HIGH POINT
TC	TOP OF CURB
FL	FLOW LINE

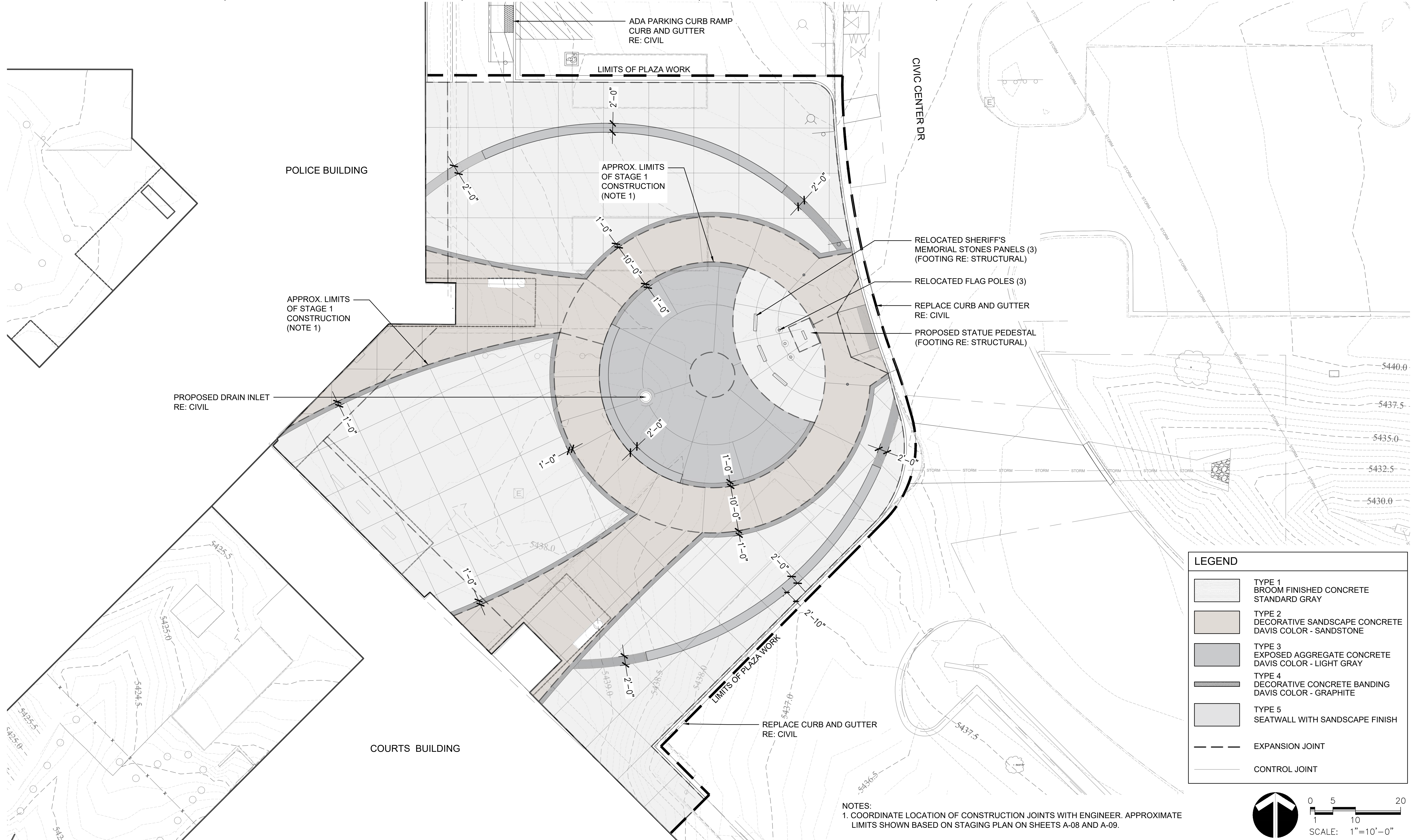


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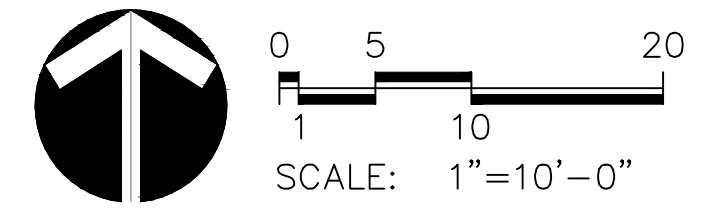
 800 S. Broadway Suite 300 Denver, CO 80209 303.892.5246 www.dhmdesign.com			THORNTON JUSTICE CENTER PHASE III	MEMORIAL PLAZA GRADING PLAN	DWG. NO. L-02
					RJH PROJECT 21129



LEGEND

- TYPE 1
BROOM FINISHED CONCRETE
STANDARD GRAY
- TYPE 2
DECORATIVE SANDSCAPE CONCRETE
DAVIS COLOR - SANDSTONE
- TYPE 3
EXPOSED AGGREGATE CONCRETE
DAVIS COLOR - LIGHT GRAY
- TYPE 4
DECORATIVE CONCRETE BANDING
DAVIS COLOR - GRAPHITE
- TYPE 5
SEATWALL WITH SANDSCAPE FINISH
- EXPANSION JOINT
- CONTROL JOINT

NOTES:
1. COORDINATE LOCATION OF CONSTRUCTION JOINTS WITH ENGINEER. APPROXIMATE LIMITS SHOWN BASED ON STAGING PLAN ON SHEETS A-08 AND A-09.



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1/16/24

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800 S. Broadway
Suite 300
Denver, CO 80209
303.892.5544
www.dhmdesign.com

RJH
CONSULTANTS, INC.

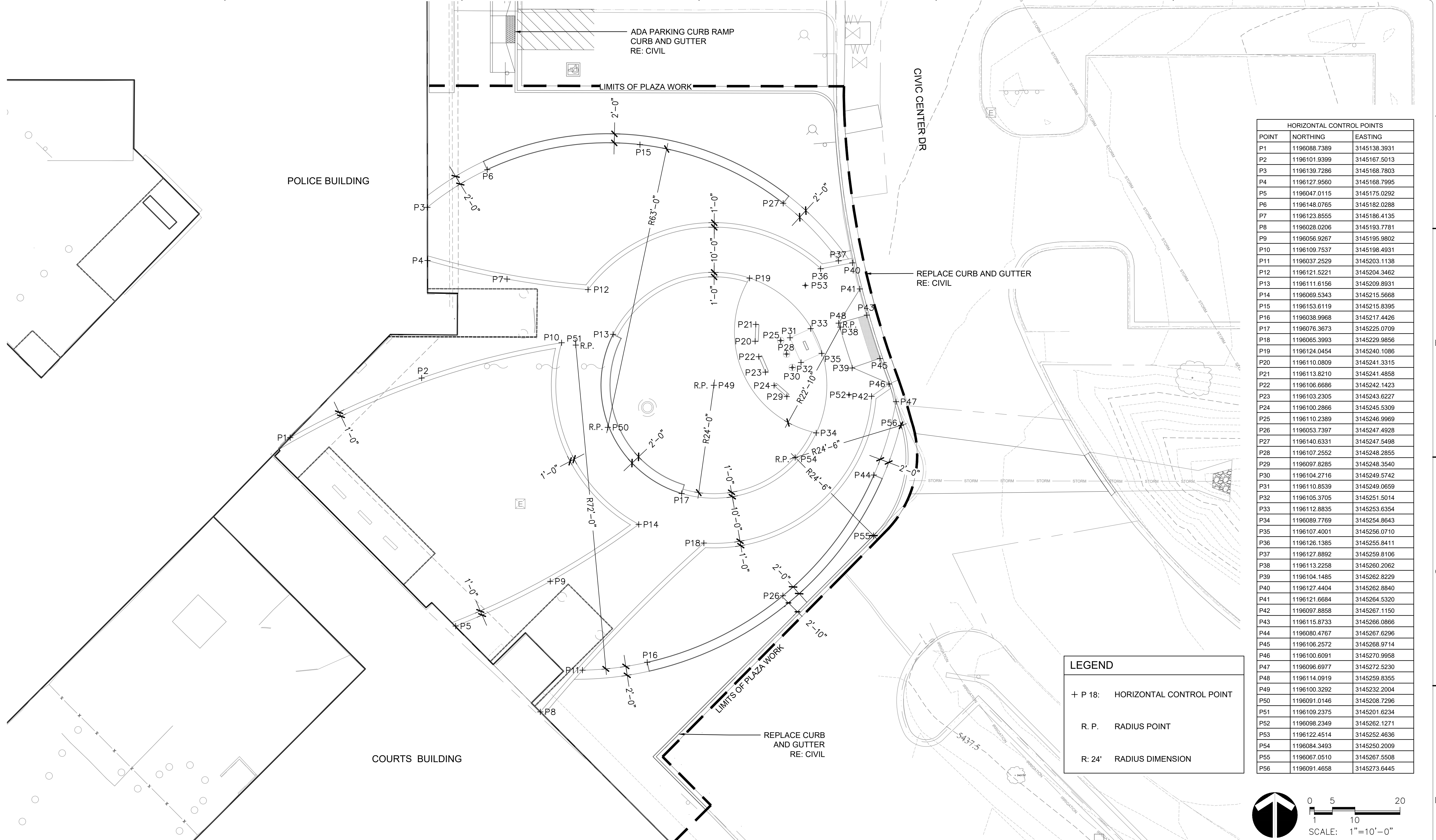
City of Thornton
RJH PROJECT 21129

THORNTON JUSTICE CENTER
PHASE III

MEMORIAL PLAZA
PAVEMENT JOINTING
PLAN

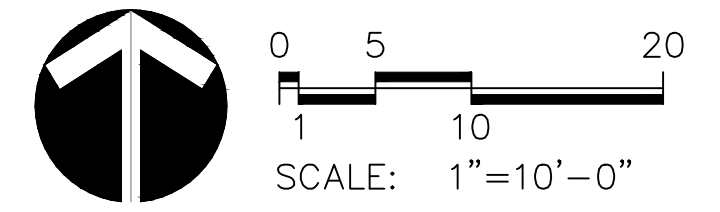
DWG. NO.
L-03
SHEET NO.
42 of 46

I:\PANZURADEN\DHMPRO\DENVER\THORNTON JUSTICE CENTER-2128917_CD\CAD\SHEETS\3-TIC-21129_PAVEMENT JOINTING PLANDWG 1/17/2024

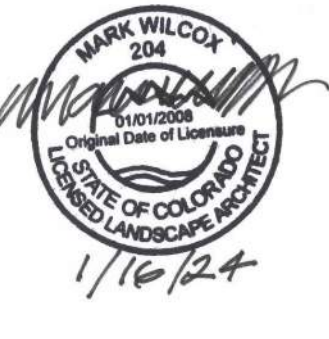


HORIZONTAL CONTROL POINTS		
POINT	NORTHING	EASTING
P1	1196088.7389	3145138.3931
P2	1196101.9399	3145167.5013
P3	1196139.7286	3145168.7803
P4	1196127.9560	3145168.7995
P5	1196047.0115	3145175.0292
P6	1196148.0765	3145182.0288
P7	1196123.8555	3145186.4135
P8	1196028.0206	3145193.7781
P9	1196056.9267	3145195.9802
P10	1196109.7537	3145198.4931
P11	1196037.2529	3145203.1138
P12	1196121.5221	3145204.3462
P13	1196111.6156	3145209.8931
P14	1196069.5343	3145215.5668
P15	1196153.6119	3145215.8395
P16	1196038.9968	3145217.4426
P17	1196076.3673	3145225.0709
P18	1196065.3993	3145229.9856
P19	1196124.0454	3145240.1086
P20	1196110.0809	3145241.3315
P21	1196113.8210	3145241.4858
P22	1196106.6686	3145242.1423
P23	1196103.2305	3145243.6227
P24	1196100.2866	3145245.5309
P25	1196110.2389	3145246.9969
P26	1196053.7397	3145247.4928
P27	1196140.6331	3145247.5498
P28	1196107.2552	3145248.2855
P29	1196097.8285	3145248.3540
P30	1196104.2716	3145249.5742
P31	1196110.8539	3145249.0659
P32	1196105.3705	3145251.5014
P33	1196112.8835	3145253.6354
P34	1196089.7769	3145254.8643
P35	1196107.4001	3145256.0710
P36	1196126.1385	3145255.8411
P37	1196127.8892	3145259.8106
P38	1196113.2258	3145260.2062
P39	1196104.1485	3145262.8229
P40	1196127.4404	3145262.8840
P41	1196121.6684	3145264.5320
P42	1196097.8858	3145267.1150
P43	1196115.8733	3145266.0866
P44	1196080.4767	3145267.6296
P45	1196106.2572	3145268.9714
P46	1196100.6091	3145270.9958
P47	1196096.6977	3145272.5230
P48	1196114.0919	3145259.8355
P49	1196100.3292	3145232.2004
P50	1196091.0146	3145208.7296
P51	1196109.2375	3145201.6234
P52	1196098.2349	3145262.1271
P53	1196122.4514	3145252.4636
P54	1196084.3493	3145250.2009
P55	1196067.0510	3145267.5508
P56	1196091.4658	3145273.6445

LEGEND	
+ P 18:	HORIZONTAL CONTROL POINT
R. P.	RADIUS POINT
R: 24'	RADIUS DIMENSION



I:\PANZURADEN\DHMPRO\DENVER\THORNTON JUSTICE CENTER-2128917_CD\CAD\SHEETS\4-TJC-21129_HORIZONTAL CONTROL PLAN.DWG 1/17/2024



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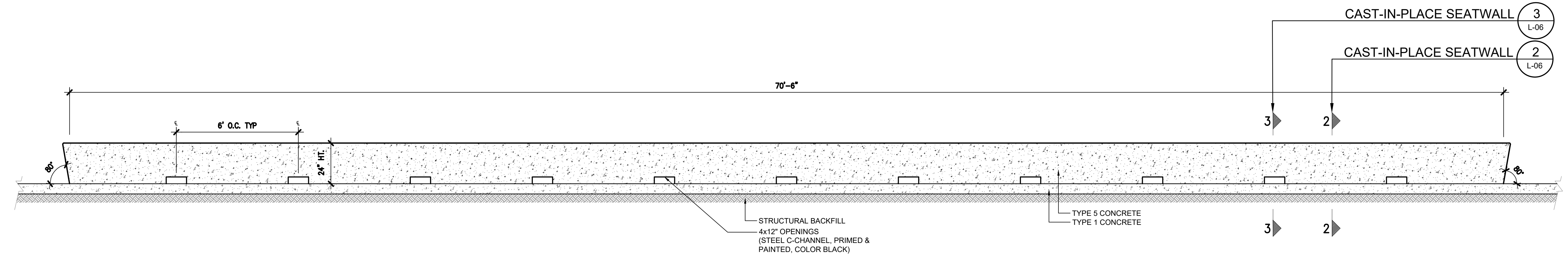


THORNTON JUSTICE CENTER
PHASE III

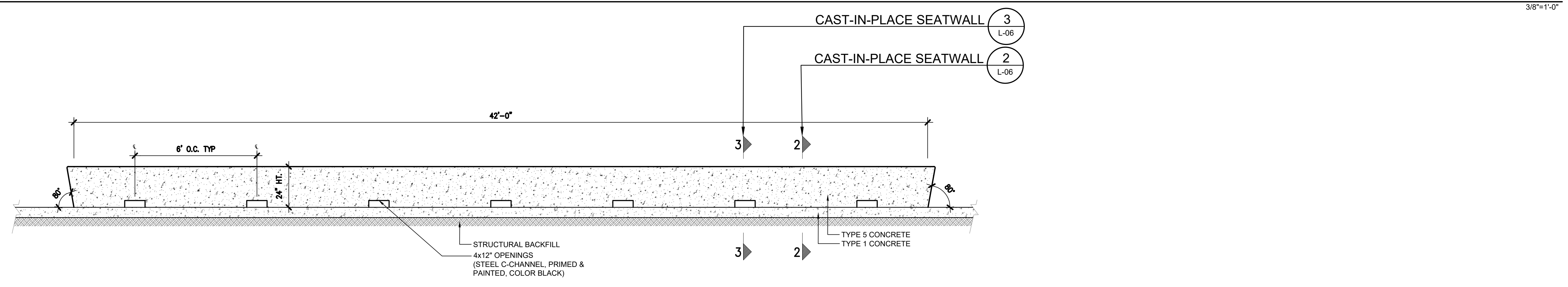
MEMORIAL PLAZA
HORIZONTAL
CONTROL PLAN

DWG. NO.
L-04
SHEET NO.
43 of 46

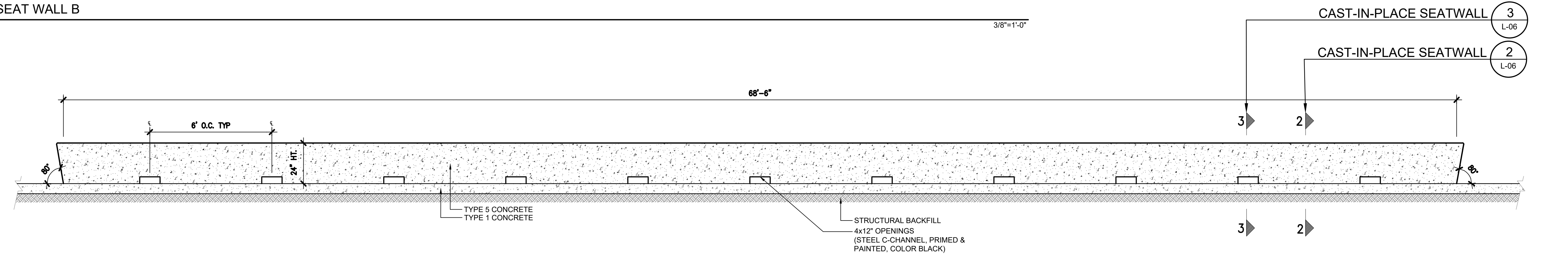
RJH PROJECT 21129



1 SEAT WALL A



2 SEAT WALL B



3 SEAT WALL C

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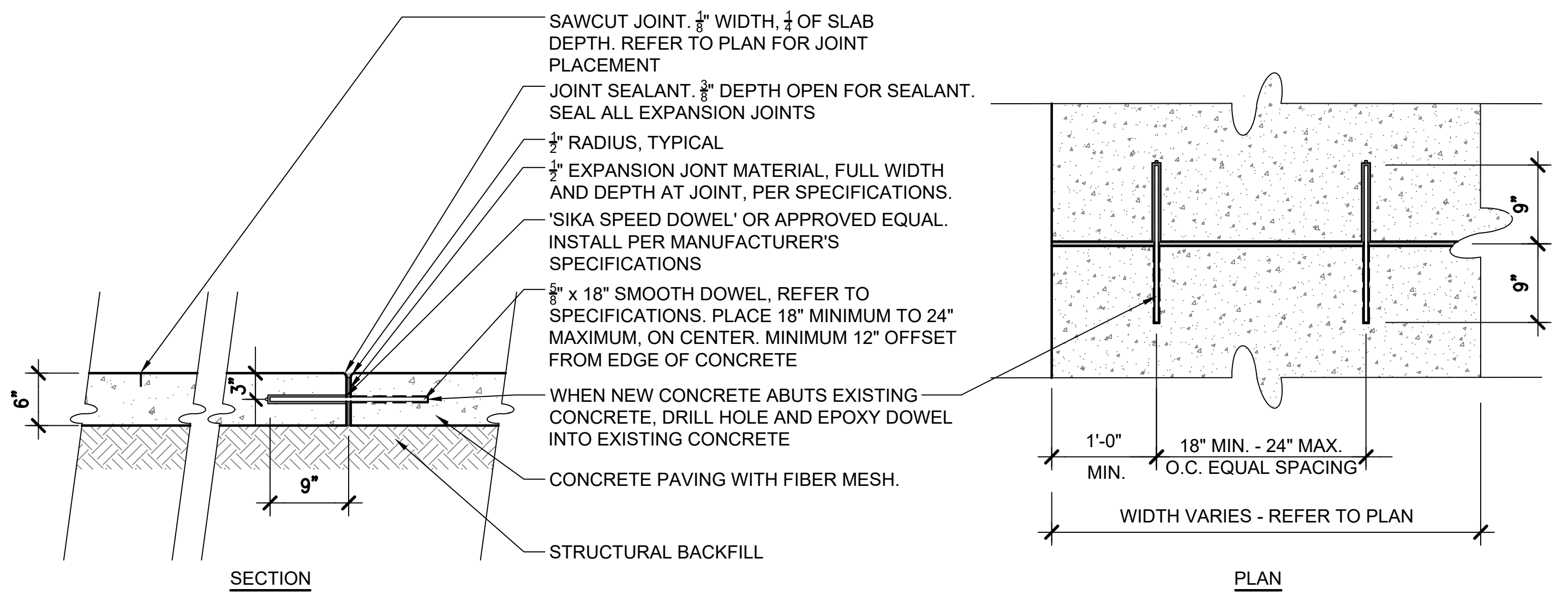
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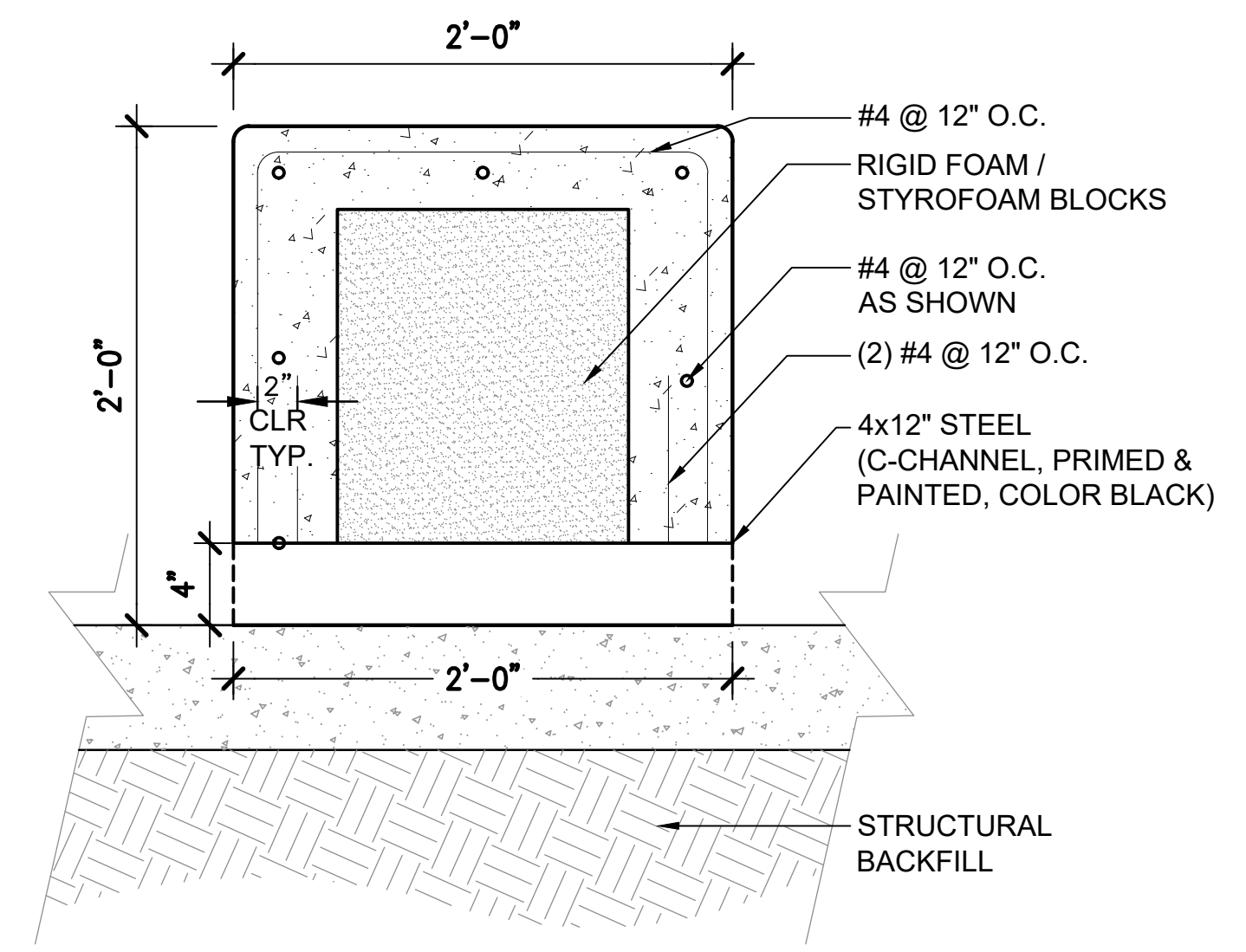
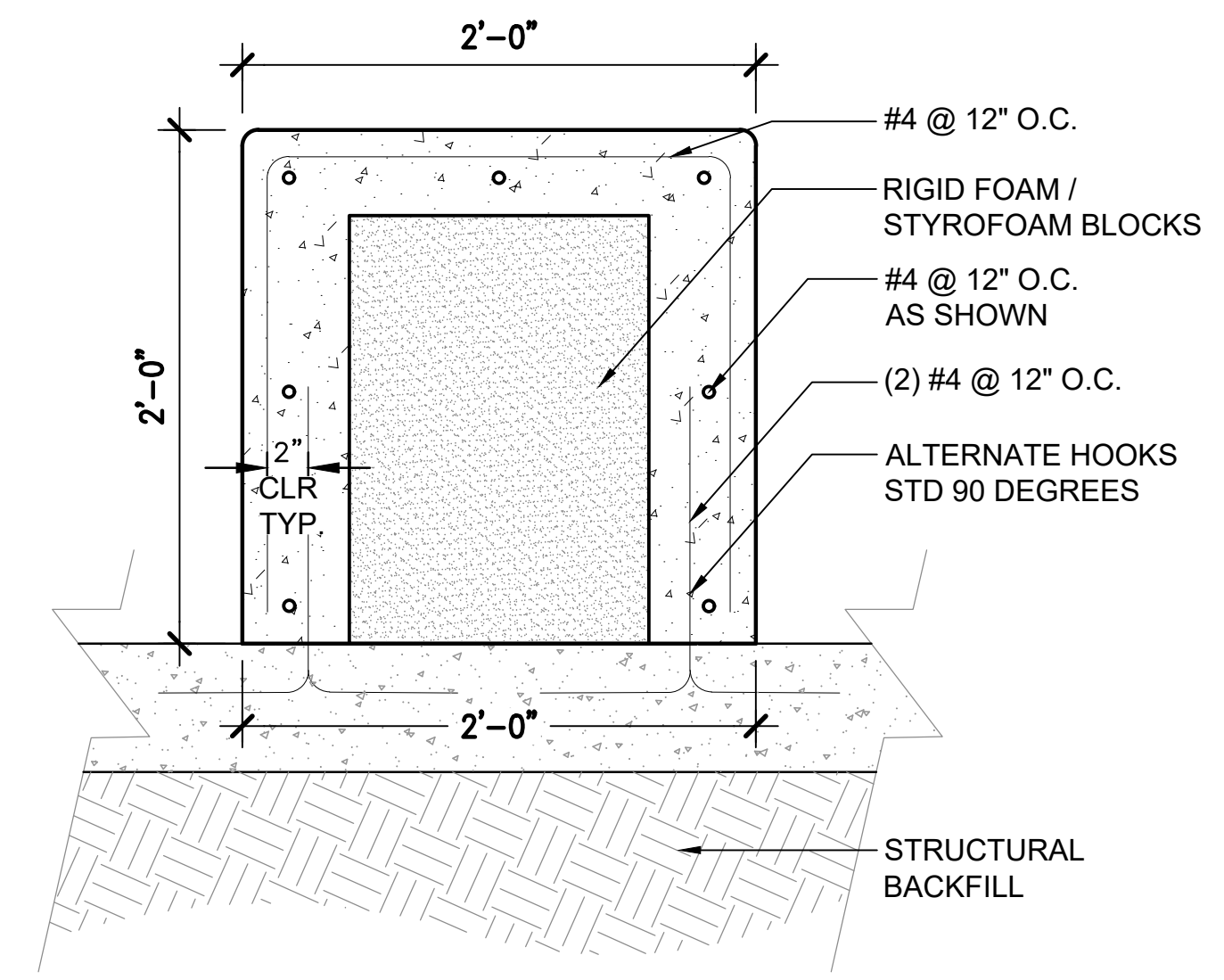
THORNTON JUSTICE CENTER
PHASE III

MEMORIAL PLAZA
SITE DETAILS
(1 OF 3)

DWG. NO.
L-05
SHEET NO.
44 of 46



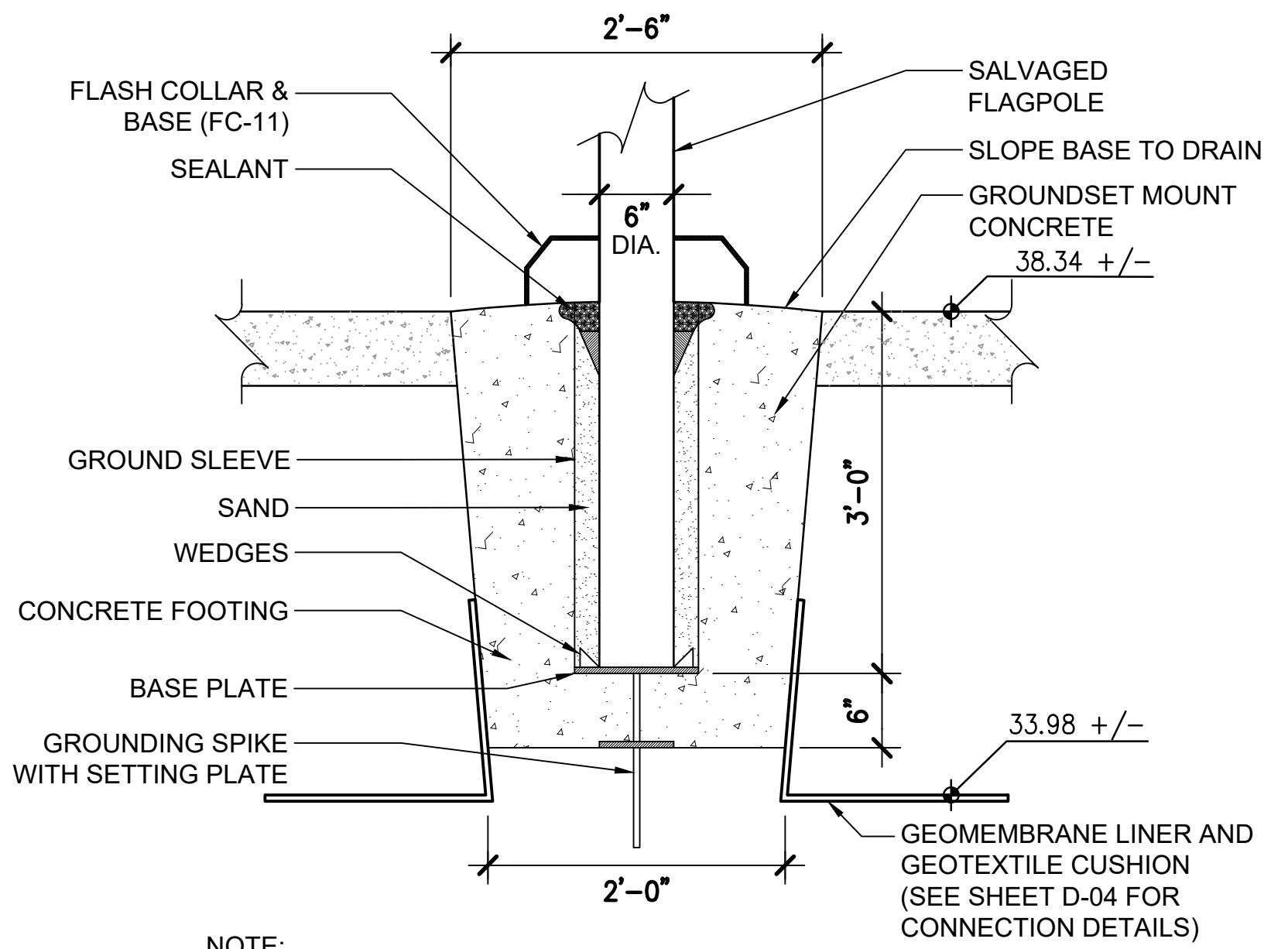
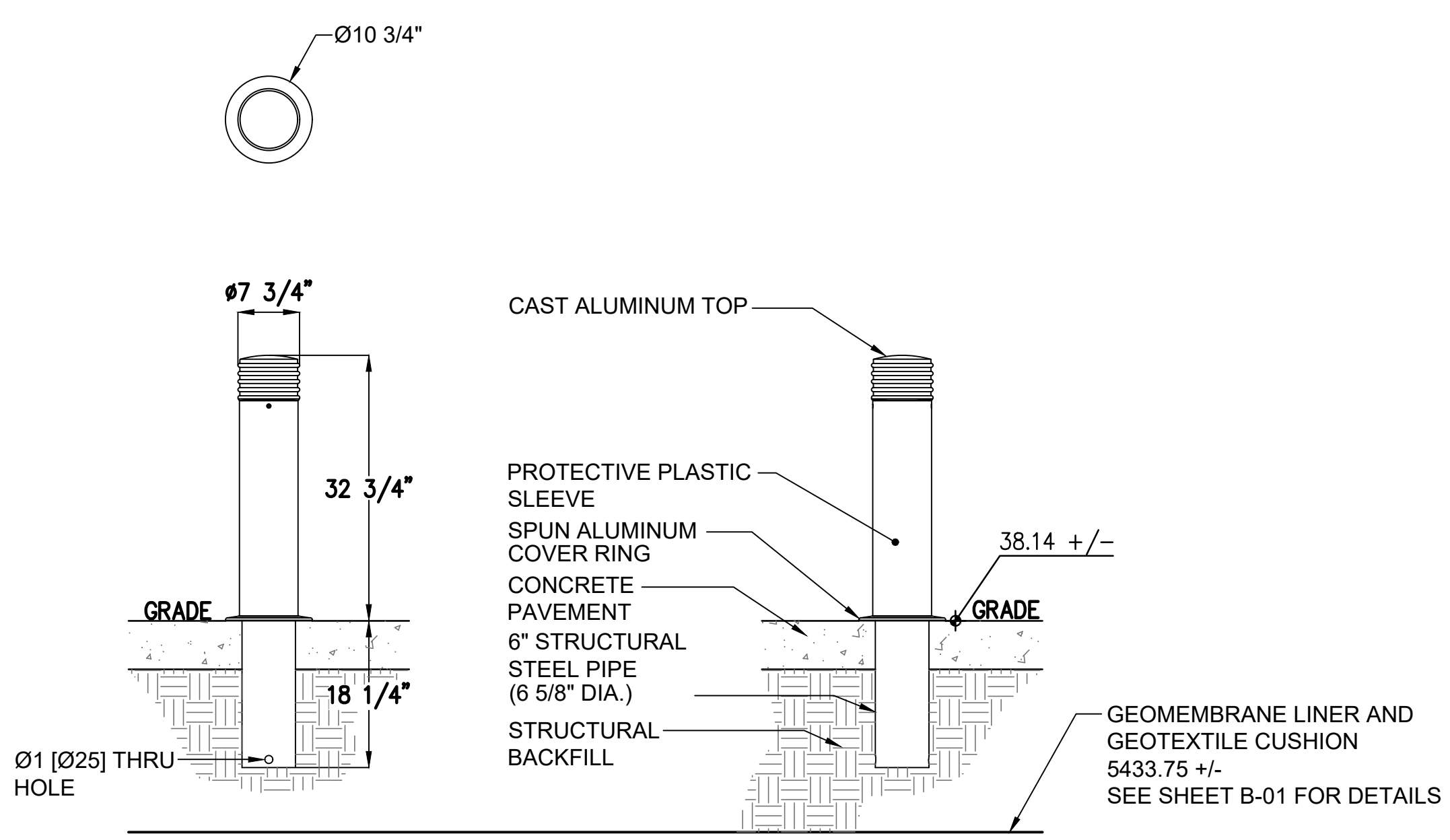
- NOTES:
- REFER TO SPECIFICATIONS FOR ALL MATERIALS CALLED OUT IN DETAILS.
 - LOCATE EXPANSION JOINTS EVERY 120' MAXIMUM, OR AS SHOWN ON THE PLAN.
 - 1.5% MIN / 1.75% MAX CROSS SLOPE ON ALL CONCRETE PAVEMENT.
 - CONCRETE FINISHES
 TYPE 1: BROOM FINISHED CONCRETE STANDARD GRAY
 TYPE 2: DECORATIVE SANDSCAPE CONCRETE DAVIS COLOR - SANDSTONE
 TYPE 3: EXPOSED AGGREGATE DAVIS COLOR - LIGHT GRAY
 TYPE 4: DECORATIVE CONCRETE BANDING DAVIS COLOR - GRAPHITE



1 CONCRETE PAVING WITH EXPANSION AND CONTROL JOINTS SCALE: 1" = 1'-0"

2 CAST-IN-PLACE SEATWALL SECTION A SCALE: 1 1/2" = 1'-0"

3 CAST-IN-PLACE SEATWALL SECTION B SCALE: 1 1/2" = 1'-0"



- NOTE:
- INSTALL GROUND SLEEVE & FOOTING PER MANUFACTURER SPECIFICATIONS
 - SALVAGE EXISTING FLAGPOLES.

4 BOLLARD NOT TO SCALE

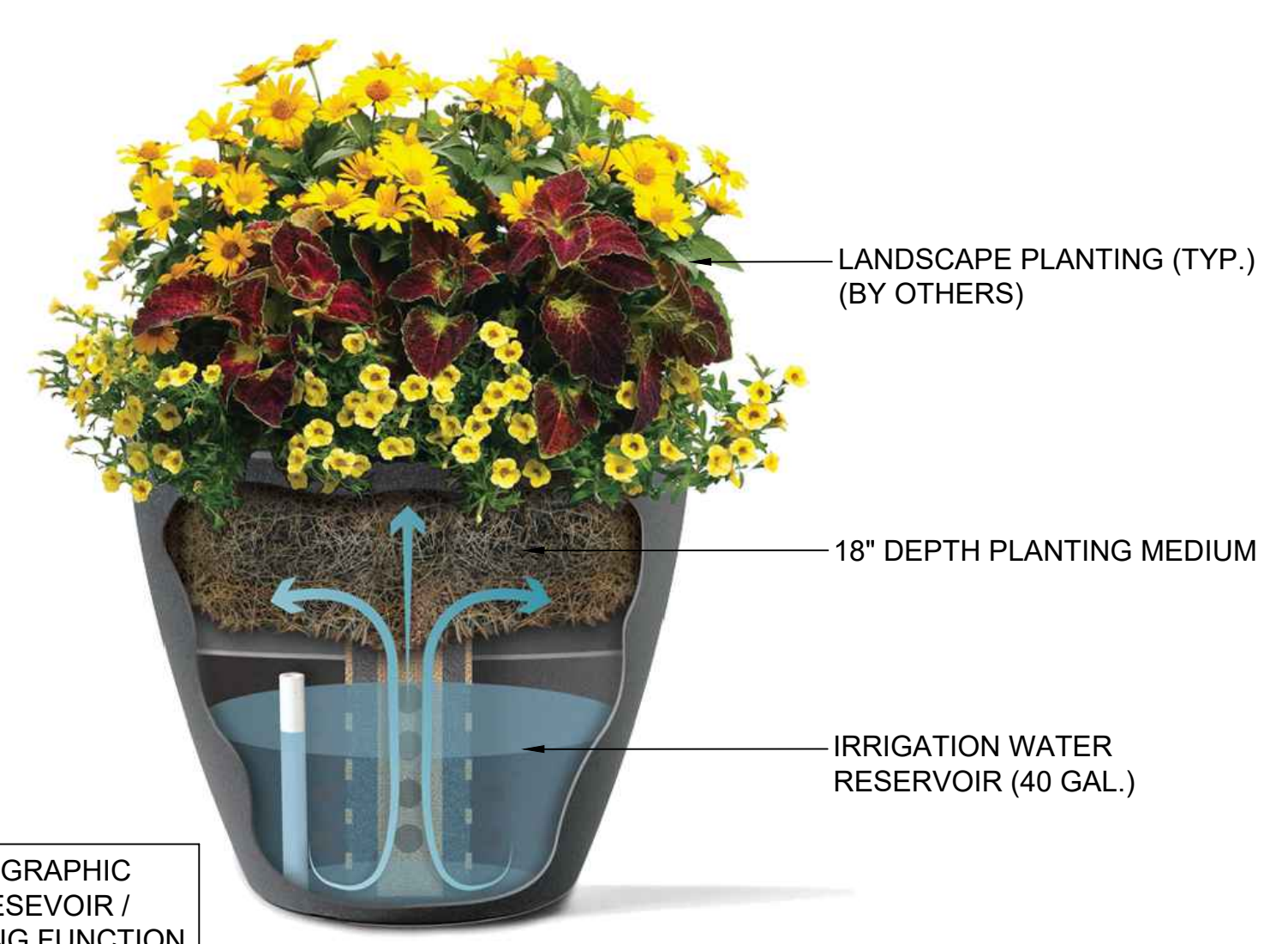
5 FLAGPOLE SLEEVE NOT TO SCALE

MARK WILCOX 204
 Original Date of License
 1/16/24
 STATE OF COLORADO
 LICENSED LANDSCAPE ARCHITECT

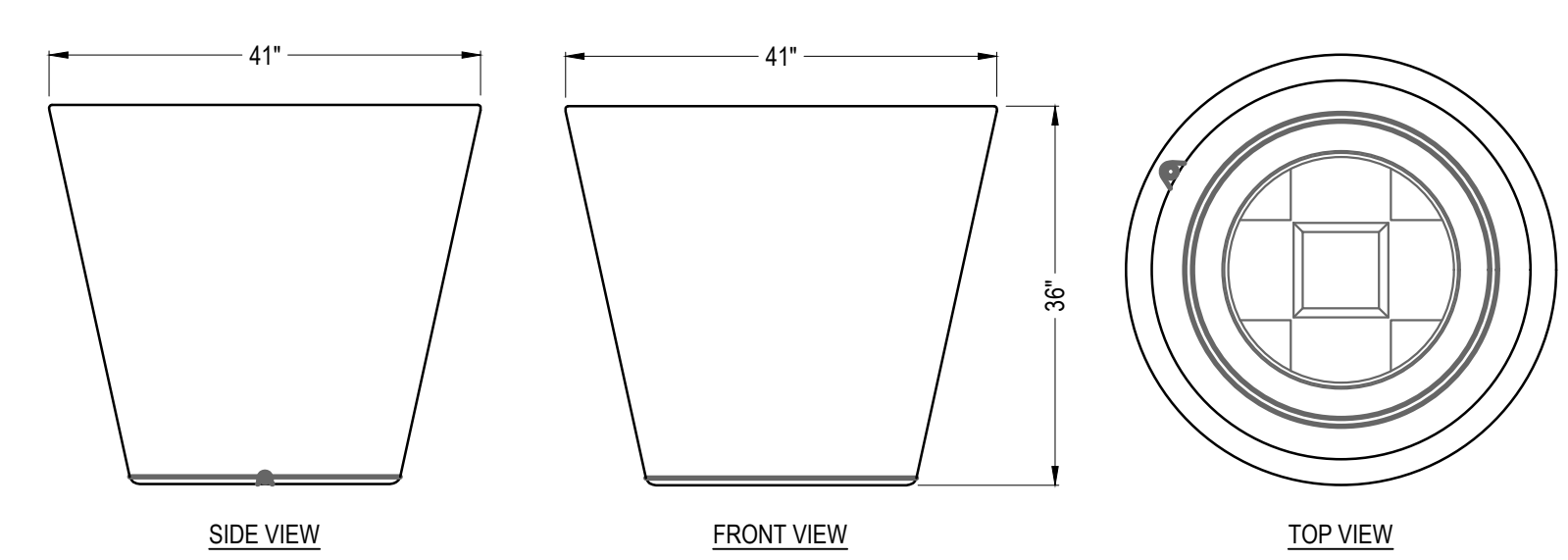
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 800 S. Broadway Suite 300 Denver, CO 80209 303.892.5046 www.dhmdesign.com		 City of Thornton	THORNTON JUSTICE CENTER PHASE III	MEMORIAL PLAZA SITE DETAILS (2 OF 3)	DWG. NO. L-06
					RJH PROJECT 21129



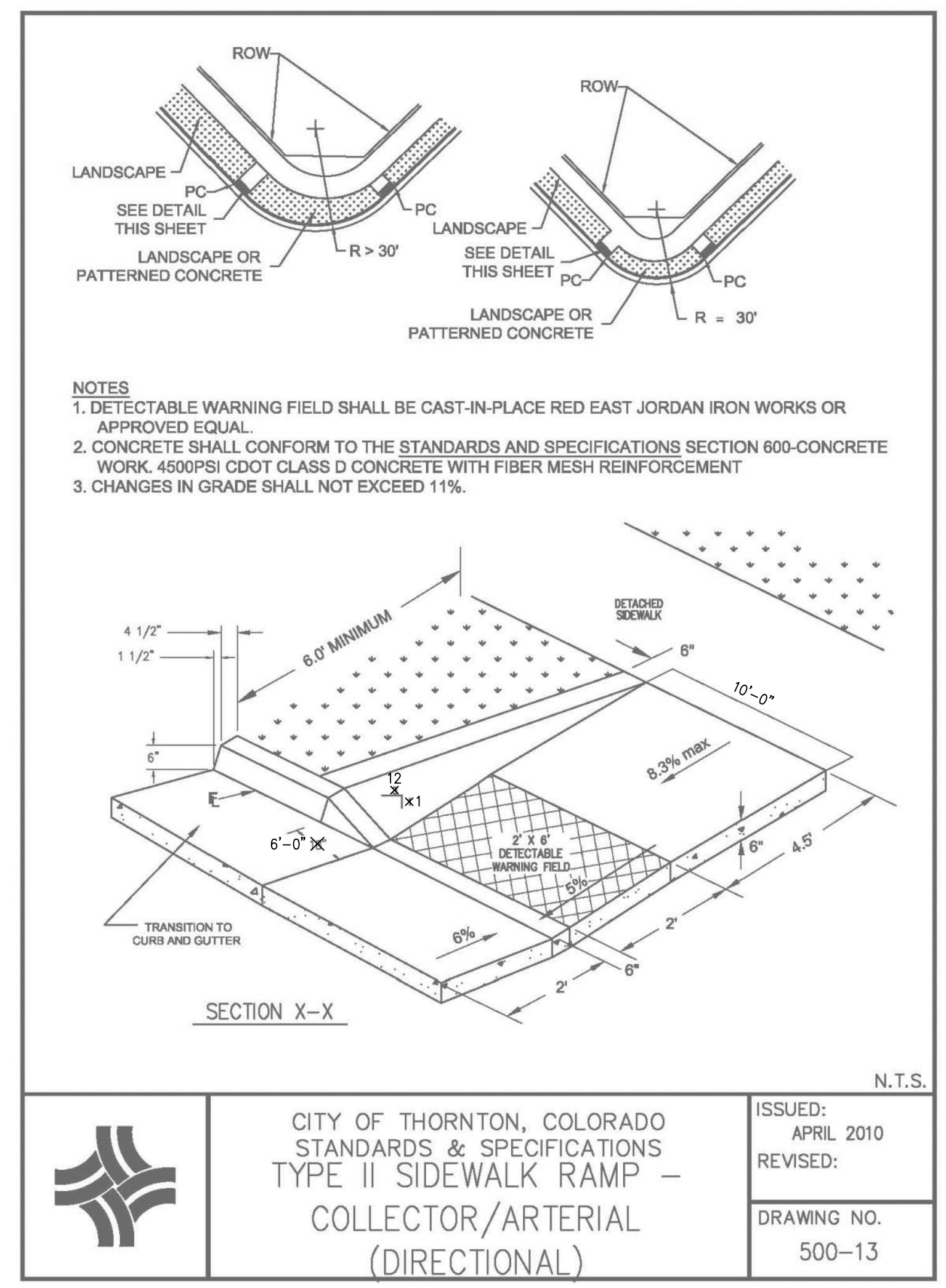
ILLUSTRATIVE GRAPHIC INDICATING RESEVOIR / SELF-WATERING FUNCTION



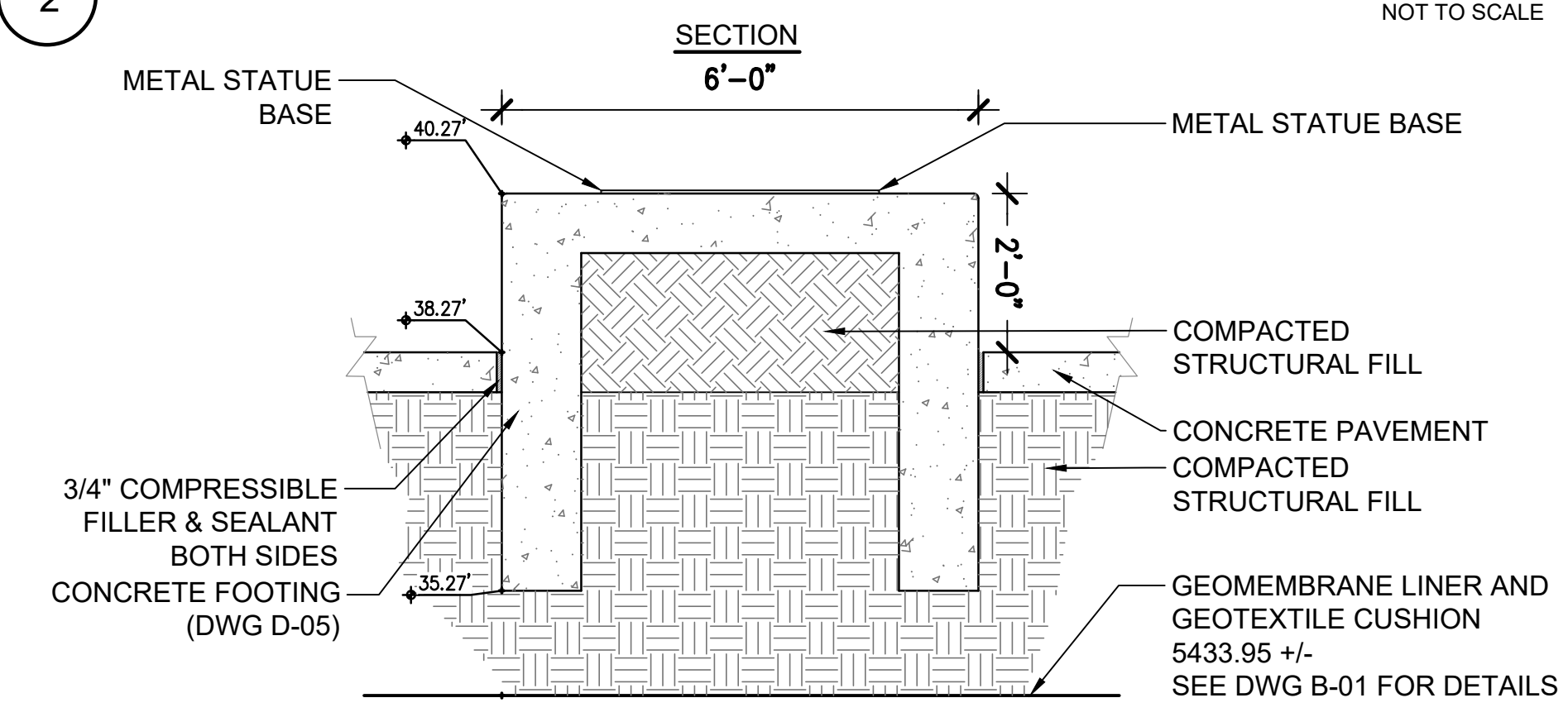
SPECIFICATIONS
 DIMENSIONS: 41" TOP OUTSIDE DIAMETER X 36" H
 PLANTING TRAY DEPTH: 19"
 WATER CAPACITY: 40 GALLONS
 PRODUCT WEIGHT: 48 LBS. (SHIP WEIGHT) / 550+ LBS. WITH WATER AND WET SOIL
 SOIL CAPACITY: 7.3 CUBIC FEET - PRO MIX BX OR EQUIVALENT SOIL REQUIRED
 PLANTERS PER PALLET: UP TO 4
 WATERING CYCLE: ONCE EVERY 2-3 WEEKS (MID-SUMMER AVERAGE)
 MATERIAL: LLDFE, LINEAR LOW-DENSITY POLYETHYLENE EMBEDDED WITH UV INHIBITORS TO PROTECT AGAINST SUN FADE
 MANUFACTURING: ROTATIONAL MOLDED FOR STRENGTH & DURABILITY
 STACKABLE: YES
 WINTERIZED: YES
 100% MADE IN THE USA

NOTES:
 1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 2. DO NOT SCALE DRAWING.
 3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
 4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.

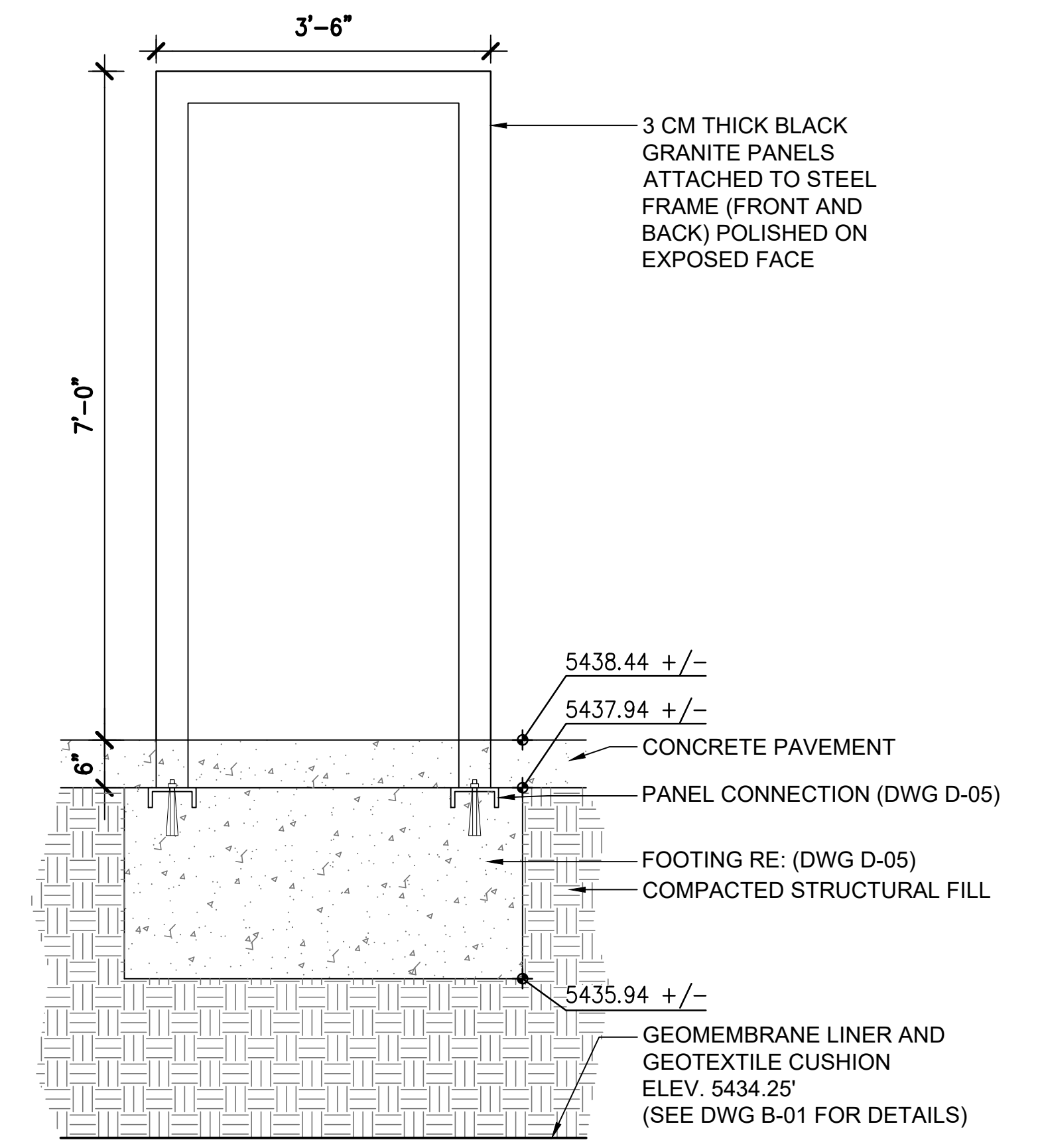
1 URBAN VASE NOT TO SCALE



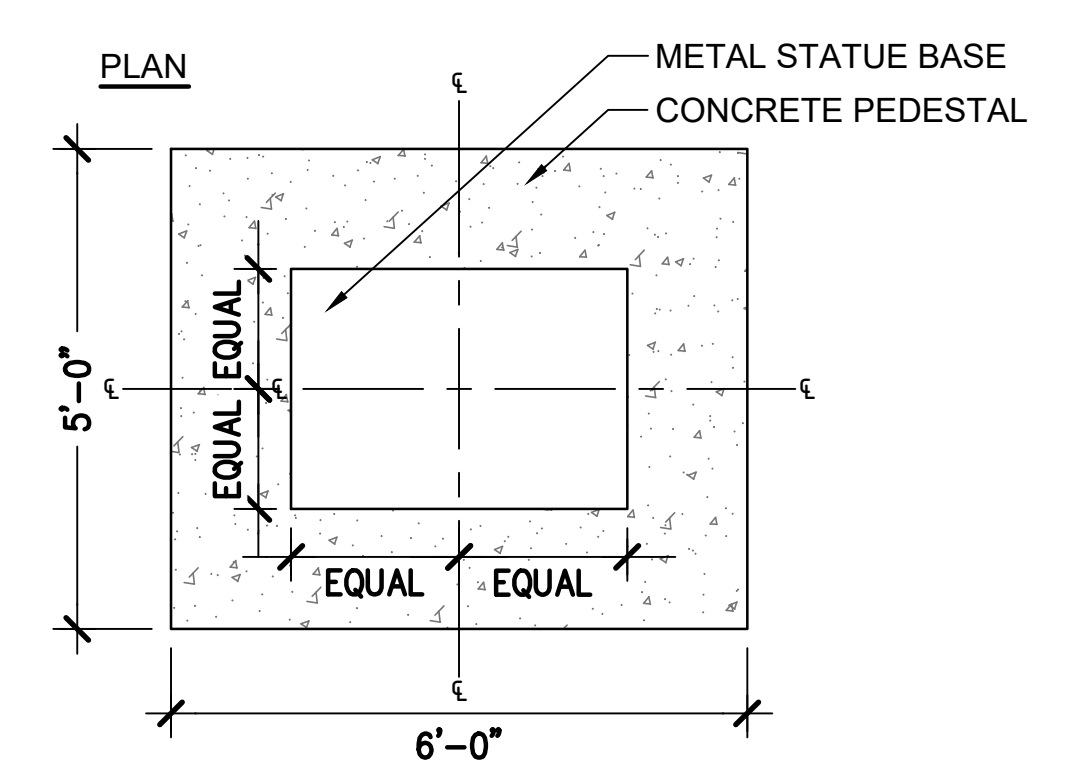
2 SIDEWALK RAMP NOT TO SCALE



4 STATUE PEDESTAL MOUNTING



3 ELEVATION - MEMORIAL PANEL MOUNTING SCALE: 3/4" = 1'-0"



PLAN SCALE: 1/2" = 1'-0"

MARK WILCOX 204
 01/2024
 ORIGINAL DATE OF LICENSE
 LICENSE OF COLORADO
 LANDSCAPE ARCHITECT
 1/16/24

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					RJH PROJECT 21129

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Certificate Of Completion

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Subject: Complete with DocuSign: 22-076 - Justice Center Plans	
Source Envelope:	
Document Pages: 46	Signatures: 2
Certificate Pages: 5	Initials: 0
AutoNav: Enabled	Envelope Originator:
Envelope Stamping: Enabled	Katie Kantor
Time Zone: (UTC-07:00) Mountain Time (US & Canada)	9500 Civic Center Drive
	Thornton, CO 80229
	Katie.Kantor@thorntonco.gov
	IP Address: 199.117.212.4

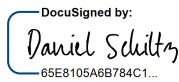
Record Tracking

Status: Original	Holder: Katie Kantor	Location: DocuSign
1/18/2024 7:53:51 AM	Katie.Kantor@thorntonco.gov	

Signer Events

Daniel Schiltz
 Daniel.Schiltz@thorntonco.gov
 Security Level: Email, Account Authentication (None)

Signature

DocuSigned by:

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Timestamp

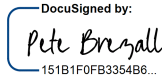
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Signature Adoption: Pre-selected Style
 Using IP Address: 199.117.212.4

Electronic Record and Signature Disclosure:

Accepted: 1/18/2024 8:00:46 AM
 ID: 350683f6-d9dc-401b-80b8-bda3cf286f41

Pete Brezall
 pete.brezall@thorntonco.gov
 Project Manager
 Security Level: Email, Account Authentication (None)

DocuSigned by:

 151B1F0FB3354B6...

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 Signed: 1/18/2024 8:08:50 AM

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 Using IP Address: 199.117.212.4

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In Person Signer Events	Signature	Timestamp
Editor Delivery Events	Status	Timestamp
Agent Delivery Events	Status	Timestamp
Intermediary Delivery Events	Status	Timestamp
Certified Delivery Events	Status	Timestamp
Carbon Copy Events	Status	Timestamp
Witness Events	Signature	Timestamp
Notary Events	Signature	Timestamp
Envelope Summary Events	Status	Timestamps
Envelope Sent	Hashed/Encrypted	1/18/2024 7:59:30 AM
Certified Delivered	Security Checked	1/18/2024 8:08:33 AM

Envelope Summary Events	Status	Timestamps
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Signing Complete	Security Checked	1/18/2024 8:08:50 AM
Completed	Security Checked	1/18/2024 8:08:50 AM

Payment Events	Status	Timestamps
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Electronic Record and Signature Disclosure

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If you elect to receive required notices and disclosures only in paper format, it will slow the speed at which we can complete certain steps in transactions with you and delivering services to you because we will need first to send the required notices or disclosures to you in paper format, and then wait until we receive back from you your acknowledgment of your receipt of such paper notices or disclosures. Further, you will no longer be able to use the DocuSign system to receive required notices and consents electronically from us or to sign electronically documents from us.

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Unless you tell us otherwise in accordance with the procedures described herein, we will provide electronically to you through the DocuSign system all required notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to you during the course of our relationship with you. To reduce the chance of you inadvertently not receiving any notice or disclosure, we prefer to provide all of the required notices and disclosures to you by the same method and to the same address that you have given us. Thus, you can receive all the disclosures and notices electronically or in paper format through the paper mail delivery system. If you do not agree with this process, please let us know as described below. Please also see the paragraph immediately above that describes the consequences of your electing not to receive delivery of the notices and disclosures electronically from us.

How to contact SHI OBO City of Thornton:

You may contact us to let us know of your changes as to how we may contact you electronically, to request paper copies of certain information from us, and to withdraw your prior consent to receive notices and disclosures electronically as follows:

To contact us by email send messages to: clerk@ThorntonCO.gov

To advise SHI OBO City of Thornton of your new email address

To let us know of a change in your email address where we should send notices and disclosures electronically to you, you must send an email message to us at clerk@ThorntonCO.gov and in the body of such request you must state: your previous email address, your new email address. We do not require any other information from you to change your email address.

If you created a DocuSign account, you may update it with your new email address through your account preferences.

To request paper copies from SHI OBO City of Thornton

To request delivery from us of paper copies of the notices and disclosures previously provided by us to you electronically, you must send us an email to clerk@ThorntonCO.gov and in the body of such request you must state your email address, full name, mailing address, and telephone number. We will bill you for any fees at that time, if any.

To withdraw your consent with SHI OBO City of Thornton

To inform us that you no longer wish to receive future notices and disclosures in electronic format you may:

- i. decline to sign a document from within your signing session, and on the subsequent page, select the check-box indicating you wish to withdraw your consent, or you may;
- ii. send us an email to clerk@ThorntonCO.gov and in the body of such request you must state your email, full name, mailing address, and telephone number. We do not need any other information from you to withdraw consent.. The consequences of your withdrawing consent for online documents will be that transactions may take a longer time to process..

Required hardware and software

The minimum system requirements for using the DocuSign system may change over time. The current system requirements are found here: <https://support.docusign.com/guides/signer-guide-signing-system-requirements>.

Acknowledging your access and consent to receive and sign documents electronically

To confirm to us that you can access this information electronically, which will be similar to other electronic notices and disclosures that we will provide to you, please confirm that you have read this ERSD, and (i) that you are able to print on paper or electronically save this ERSD for your future reference and access; or (ii) that you are able to email this ERSD to an email address where you will be able to print on paper or save it for your future reference and access. Further, if you consent to receiving notices and disclosures exclusively in electronic format as described herein, then select the check-box next to ‘I agree to use electronic records and signatures’ before clicking ‘CONTINUE’ within the DocuSign system.

By selecting the check-box next to ‘I agree to use electronic records and signatures’, you confirm that:

- You can access and read this Electronic Record and Signature Disclosure; and
- You can print on paper this Electronic Record and Signature Disclosure, or save or send this Electronic Record and Disclosure to a location where you can print it, for future reference and access; and
- Until or unless you notify SHI OBO City of Thornton as described above, you consent to receive exclusively through electronic means all notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to you by SHI OBO City of Thornton during the course of your relationship with SHI OBO City of Thornton.